

OBSERVING SCHEDULE

Survey Log

1953 -1956

Observing Schedule - Run No. 46

June July 1953

Date	Start	Stop	No. Plates	No of Survey Pr.	Observer	Temp.	Wind	Sky	Seeing
July 2/3	E=8:55	Mr=10:53	3	0	Abell	76-80	NW	clear - LH 2-100	2-3
3/4	8:55	11:25	2	0	"	78	NW	Scattered clouds	2-3
4/5	8:54	12:00	2	1	"	78-80	Light NW after 10 PM	Probable Thin clouds	4-5
5/6	8:54	12:38	4	2	"	77-81	NW Breeze	clear	1-2
6/7	8:54	1:23	0	0	"	76-80	-	Scattered & Thin clouds	-
7/8	8:53	2:19	1	0	"	82°	-	clouds	1-2
8/9	8:53	D=3:16	7	3	"	80°-70°	NW	clear	2-3
9/10	8:53	3:17	9	4	"	72°	NW Breeze	clear	2-3+
10/11	8:52	3:18	10	5	"	76°	Variable NW-SE	clear	3-4
11/12	8:52	3:19	2	1	"	75°	Variable NW-SE ^{NW} clouds	Re occurring cloudiness	2-3
12/13	8:51	3:20	0	0	"			overcast	
13/14	8:50	3:20	0	0	Ha	73°	Calm	Thin Clouds	2-3
14/15	Ms=9:08	3:21	2	9	"	65°	Strong N.W.	Clouds	1-2
15/16	9:33	3:22	3	0	"	64°	N.W.	clear	1-2+
16/17	9:58	3:23	3	0	"	67°	Calm	"	1-2+
17/18	10:24	3:24	0	0	"				
18/19	10:51	3:25	0	0	"				
19/20	11:24	3:26	0	0	"				
			48	16					

July, 1953

Date	Program	Plate No.	Emulsion Type	Emulsion Number	α	δ	Filter	
July 2/3	Tests	F-1	1032-O	486,773	Focus - PH-1		-	
	"	F-2	1032-E	486,826	" PH-3 + #47		#47	
	"	T-1	1032-E	486,826	Polar Alignment - first moved telescope 4 Hours West then began 15" west			
July 3/4	"	T-2	"	"	Polar Alignment - first moved telescope 4 Hours East - then began 15" west			
	"	T-3	"	"	Same as T-1			
July 4/5	Survey	E-758	"	XGA3	15 ^h 36 ^m	+66°	#47	
	"	O-758	1032-O	X5D3	"	"		
July 5/6	"	E-759	1032-E	XGA3	16 ^h 52 ^m	+78°	#47	
	"	O-759	1032-O	X5D3	"	"		
	"	E-760	1032-E	XGA3	18 ^h 24 ^m	+78°	#47	
	"	O-760	1032-O	X5D3	"	"		
July 6/7	No observations							
July 7/8	Zwicky	PS 627	1032-O	X5D3	12 ^h 57 ^m 10 ^s	+28° 18' 5"	-	(Coma cluster)
July 8/9	"	PS 628	"	"	"	"		
"	Survey	E-761	1032-E	XGA3	16 ^h 0 ^m	0°	#47	
"	"	O-761	1032-O	X5D3	"	"		
"	"	E-762	1032-E	XGA3	17 ^h 36 ^m	+60°	#47	
"	"	O-762	1032-O	X5D3	"	"		
"	"	E-763	1032-E	XGA3	19 ^h 04 ^m	+60°	#47	
"	"	O-763	1032-O	X5D3	"	"		
July 9/10	"	E-764	1032-E	XGA3	16 ^h 0 ^m	-6°	#47	
"	"	O-764	1032-O	X5D3	"	"		Corners broken in plate holder
"	"	O-764	"	"	"	"		
"	"	E-765	1032-E	XGA3	17 ^h 6 ^m	+54°	#47	
"	"	O-765	1032-O	X5D3	"	"		
"	"	E-766	1032-E	XGA3	18 ^h 48 ^m	-18°	#47	
"	"	O-766	1032-O	X5D3	"	"		
"	"	E-767	1032-E	XGA3	21 ^h 28 ^m	+78°	#47	
"	"	O-767	1032-O	X5D3	"	"		
July 10/11	"	E-768	1032-E	XGA3	15 ^h 20 ^m	+78°	#47	
"	"	O-768	1032-O	X5D3	"	"		
"	"	E-769	1032-E	XGA3	17 ^h 34 ^m	+48°	#47	
"	"	O-769	1032-O	X5D3	"	"		
"	"	E-770	1032-E	XGA3	18 ^h 42 ^m	+48°	#47	
"	"	O-770	1032-O	X5D3	"	"		
"	"	E-771	1032-E	XGA3	19 ^h 56 ^m	+30°	#47	
"	"	O-771	1032-O	X5D3	"	"		

(con't)

[illegible]

Supply Record -- Run No 46

July, 1953

On hand at beginning of run:

	D-19	Naccofix Concentr.	Naccofix	Acetic Acid	Distilled Water		Received	7/2/53 - 28 gal D-19
	63	36	23	4 1/2	5			
	Plates	200" vault	200" Dark Rm	48"	open	Ready box	Total	
O	420,649	-	-	-	2	-	2	
O	449,667	-	64x4	-	-	-	256	
O	458,884	-	-	12x4	-	-	48	
O	486,773	35x2	-	3x2	-	1	77	
E	486,815	-	66x2	-	-	-	132	
E	486,826	-	47x2	7x2	-	-	108	
E	486,827	-	45x2	-	-	-	90	
E	488,467	-	55x2	-	-	-	110	
E	488,520	-	63x2	-	-	-	126	
E	489,182	-	30x2	5x2	-	-	70	
E	X5J2	78x2	-	-	-	-	156	
E	X6A3	82x2	-	15x2	-	5	199	
O	X 5D3	202x2	-	29x2	-	6	468	

7/7/53: 1 gal D-19 & 1 gal Nac. Con. to 200"
 7/25/53 4 gal D-19 to 200"

7/8/53 4 gal D-19 to 200"

On Hand at End of Run:

	D-19	Naccofix Conc.	Naccofix	Acetic Acid	Distilled Water		
	45	31	22	4 1/4	5		
O	420,649	-	-	-	2	-	2
O	449,667	-	64x4	-	-	-	256
O	458,884	-	-	12x4	-	-	48
O	486,773	35x2	-	3x2	-	-	76
E	486,815	-	66x2	-	-	-	132
E	486,826	-	47x2	2x2	-	-	98
E	486,827	-	45x2	-	-	-	90
E	488,467	-	55x2	-	-	-	110
E	488,520	-	63x2	-	-	-	126
E	489,182	-	30x2	5x2	-	-	70
E	X5J2	78x2	-	-	-	-	156
E	X6A3	82x2	-	6x2	-	3	179
O	X5D3	202x2	-	29x2	-	2	448

Observing Schedule

Run No. 47

AUGUST, 1953

date	start	stop	no. plates	number of survey pt.	observer	temp	wind	sky	seeing
Aug 3/4	E= 2018	Mr=0011	6	0	Abell	62°	NW breeze	clear	<1-3
4/5	2016	0104	7	0	"	66°	calm	clear	<1-2
5/6	2015	0203			"				
6/7	2014	0304			Harrington				
7/8	2013	D= 0332			"				
8/9	2012	0333			"				
9/10	2010	0334	4	1	"	68°	west	clouds by 1:00	2-2+
10/11	2009	0335	10	5	"	70°	Cal m	clear	2-3+
11/12	2008	0336	5	2	Harrington	70°	N. W.	clouds by 11:15	2-3+
12/13	2007	0337	11	4	"	70°	Cal m	clear	2-4+
13/14	Ms=2026	0337	11	3	"	72°	S. E.	"	2-4+
14/15	2053	0338	9	4	"	72°	S. E.	"	2-3
15/16	2123	0339	9	4	"	70°	S. W.	"	<2-3
16/17	2157	0340	0	0	"	70°	N. W.	"	1-2
17/18	2238	0341	4	2	"	70°	S. E.	"	2-3
18/19	2326	0342	4	2	"	71°	S. E.	"	2-3+
			80	27					

Observing Log

Run No. 47

AUGUST, 1953

date	Program	Plate No.	Emulsion Type	Emulsion Number	α	β	Filter
Aug 3, 1953	Tests	F-1	103a-E	XGA3			#47
"	"	F-2	"	"			"
"	"	T-1	"	"	18 ^h 13 ^m 59 ^s	+64°44'5"	"
"	"	T-2	"	"	20 ^h 5 ^m 47 ^s	-10°12'32"	"
"	"	T-3 ✓	"	"	polar Alignment		"
"	"	T-4	"	"	23 ^h 37 ^m 30 ^s	+27°14'5"	"
Aug 4/5	"	T-5	"	"	polar Alignment		"
"	"	T-6	"	X5J2	17 ^h 30 ^m 46 ^s	+34°46'50"	"
"	"	T-7	"	"	polar alignment		"
"	"	T-8	103a-O	486,773	20 ^h 8 ^m 54 ^s	+30°3'02"	—
"	"	T-9	"	"	polar alignment		—
"	"	T-10	"	X5D3	"	"	—
"	"	F-3	"	"	0 ^h 4 ^m 10 ^s	+18°30'20"	—
Aug. 5/6	"	T-11	a-E	X5J2	16 ^h	+61°	47
"	"	T-12	a-O	486,773	17 ^h	+58°	—
"	"	T-13	a-O	"	21 ^h	+59°	—
"	"	T-14	a-O	"	22 ^h	+63°	—
Aug. 6/7	"	T-15	a-E	486,815 X5J2	18 ^h	+33	47
"	"	T-16	a-E	"	21 ^h	+30	"
Aug. 7/8	"	T-17	"	"	17 ^h	+47	"
"	"	T-18	"	"	18 ^h	+47	"
"	"	T-19	"	"	20 ^h	+50	"
"	"	T-20	a-O	486,773	22 ^h	0°	—
Aug. 8/9	"	T-21	T-28	POLAR			Telescope Now Usable
Aug 9/10	"	F-3	103a-E	486,815 X5J2			#49
"	"	F-4	103a-O	486,773			—
"	Survey	O-774	103a-O	X5D3	19 ^h 38 ^m	+54°	
"	"	E-774	103a-E	X6A3	"	"	49
Aug. 10/11	Test	T-29	"	486,815	POLAR	PLATE	"
"	Survey	O-775	103a-O	X5D3	17 ^h 30 ^m	+84°	
"	"	E-775	103a-E	X6A3	"	"	49
"	"	O-776	103a-O	X5D3	18 ^h 24 ^m	+78°	
"	"	E-776	103a-E	X6A3	"	"	"
"	"	O-777	103a-O	X5D3	19 ^h 56	+66°	
"	"	E-777	103a-E	X6A3	"	"	"
"	"	O-778	103a-O	X5D3	22 ^h 24 ^m	+36°	
"	"	E-778	103a-E	X6A3	"	"	"

Observing Log

Run No. 47

AUGUST, 1953

(con't)

Date	Program	Plate No.	Emulsion Type	Emulsion Number	α	β	Filter
Aug. 10/11	Survey	O-779	103a-o	X5D3	23 ^h 50 ^m	+24°	
"	"	E-779	103a-E	X6A3	"	"	49
Aug. 11/12	"	O-780	103a-o	X5D3	17 ^h 36 ^m	+6	
"	"	E-780	103a-E	X6A3	"	"	"
"	"	O-781	103a-o	X5D3	19 ^h 08 ^m	+36	
"	"	E-781	103a-E	X6A3	"	"	"
Aug. 11/13	—	T-30	"	"	—	—	"
Aug. 12/13	—	T-31	"	486,815	Polar Plate		
"	—	T-32	"	486,827	"	"	
"	—	T-33	"	"	"	"	
"	Survey	O-782	103a-o	X5D3	19 ^h 36 ^m	+12°	
"	"	E-782	103a-E	X6A3	"	"	49
"	"	O-783	103a-o	X5D3	21 ^h 14 ^m	-24°	
"	"	E-783	103a-E	X6A3	"	"	"
"	"	O-784	103a-o	X5D3	22 ^h 48 ^m	-18°	
"	"	E-784	103a-E	X6A3	"	"	"
"	"	O-785	103a-o	X5D3	23 ^h 50 ^m	-24°	
"	"	E-785	103a-E	X6A3	"	"	"
Aug. 13/14	Test	T-34	to T-38		—	—	"
"	Survey	O-786	103a-o	X5D3	20 ^h 48 ^m	-24°	
"	"	E-786	103a-E	X6A3	"	"	"
"	"	O-787	103a-o	X5D3	22 ^h 24 ^m	-18°	
"	"	E-787	103a-E	X6A3	"	"	"
"	"	O-788	103a-o	X5D3	23 ^h 36 ^m	-12°	
"	"	E-788	103a-E	X6A3	"	"	"
Aug. 14/15	"	O-789	103a-o	X5D3	18 ^h 22 ^m	+54°	
"	"	E-789	103a-E	X6A3	"	"	"
"	"	O-790	103a-o	X5D3	20 ^h 0 ^m	-18°	
"	"	E-790	103a-E	X6A3	"	"	"
"	"	O-791	103a-o	X5D3	20 ^h 48 ^m	-12°	
"	"	E-791	103a-E	X6A3	"	"	"
"	"	O-792	103a-o	X5D3	23 ^h 36 ^m	-6°	
"	"	E-792	103a-E	X6A3	"	"	"
"	—	PS-629	103a-o	X5D3	23 ^h 40 ^m	-11°28'	—

Observing Log

Run No. 47

AUGUST, 1953

(con't)

date	Program	Plate No	Emulsion Type	Emulsion Number	α	β	Filter		
Aug. ¹⁵ / ₁₆	Survey	O-793	103a-O	X5D3	19 ^h 12 ^m	+18°			
"	"	E-793	103a-E	X6A3	"	"	49		
"	"	O-794	103a-O	X5D3	20 ^h 24 ^m	0°			
"	"	E-794	103a-E	X6A3	"	"	"		
"	"	O-795	103a-O	X5D3	22 ^h 0 ^m	+6°			
"	"	E-795	103a-E	X6A3	"	"	"		
"	"	O-796	103a-O	X5D3	23 ^h 36 ^m	+6°			
"	"	E-796	103a-E	X6A3	"	"	"		
"	—	PS-630	103a-O	X5D3	—				
Aug. ¹⁶ / ₁₇	No observations								
Aug. ¹⁷ / ₁₈	Survey	O-797	103a-O	X5D3	20 ^h 48 ^m	-6°			
"	"	E-797	103a-E	X6A3	"	"	"		
"	"	O-798	103a-O	X5D3	22 ^h 0 ^m	0°			
"	"	E-798	103a-E	X6A3	"	"	"		
"	—	PS-631	103a-O	X5D3	—				
Aug. ¹⁸ / ₁₉	Survey	O-799	103a-O	X5D3	21 ^h 36 ^m	+12°			
"	"	E-799	103a-E	X6A3	"	"	"		
"	"	O-800	103a-O	X5D3	22 ^h 48 ^m	+12°			
"	"	E-800	103a-E	X6A3	"	"	"		

AUGUST, 1953

On hand at beginning of run:

	D-19	Naccofix Concent.	Naccofix	Acetic Acid	Distilled Water					
	40½	31	22	4¼	5					
	Plates	200" vault	200" darkroom	48"	open	ready box	total			
O 420,649		-	-	-	2	-	2			
O 449,667		-	64x4	-	-	-	256			
O 458,884		-	-	12x4	-	-	48			
O 486,773		35x2	-	3x2	-	-	76			
E 486,815		-	66x2	-	-	-	132			
E 486,826		-	47x2	-	-	-	94			
E 486,827		-	45x2	-	-	-	90			
E 488,467		-	55x2	-	-	-	110			
E 488,520		-	63x2	-	-	-	126			
E 489,182		-	30x2	-	-	-	60			
E X5J2		78x2	-	-	-	-	156			
E X6A3		82x2	-	5x2	-	2	176			
O X5D3		202x2	-	21x2	-	2	448			

Aug 4: from 200" Vault: 2x20 = 40 X6A3 (103a-E) plates
 2x8 = 16 X5J2 (103a-E) plates
 2x3 = 6 486,773 (103a-O) plates

Aug 8: " " Darkroom 6x2 = 12 486,815 (103a-E) "
 4x2 = 8 486,827 " "

On Hand at end of Run:

	D-19	Naccofix Conc.	Naccofix	Acetic Acid	Distilled Water					
	20	26	21	4	5					
O 420,649		-	-	-	2	-	2			
O 449,667		-	64x4	-	-	-	256			
O 458,884		-	-	12x4	-	-	48			
O 486,773		33x2	-	3x2	-	-	72			
E 486,815		-	60x2	-	-	-	120			
E 486,826		-	47x2	-	-	-	94			
E 486,827		-	41x2	-	-	-	82			
E 488,467		-	55x2	-	-	-	110			
E 488,520		-	63x2	-	-	-	126			
E 489,182		-	30x2	-	-	-	60			
E X5J2		70x2	-	3x2	-	-	146			
E X6A3		62x2	-	6x2	-	-	136			
O X5D3		202x2	-	5x2	-	-	414			

Plate Testing Record

Run No. 47

AUGUST, 1953

Date	Emulsion Type	Emulsion Number	good	break	total	Remarks
8/3/53	103a-O	486,773	2	-	2	
"	103a-E	X6A3	2	-	2	
"	"	"	4	-	4	
8/4/53	"	X5J2	5	1*	6	broken in package
8/5/53	"	"	2	-	2	
"	103a-O	486,773	4	-	4	
8-7-53	103a-E	X5J2	2	-	2	
8-8-53	"	486,815	8	-	8	
8-9-53	"	"	1	1	2	
"	"	X6A3	2	-	2	
"	103a-O	X5D3	2	2	4	
8-10-53	"	"	4	-	4	
"	103a-E	X6A3	6	-	6	
"	"	486,815	2	-	2	
8-11-53	"	X6A3	4	-	4	
"	103a-O	X5D3	6	-	6	
8-12-53	"	"	2	-	2	
"	103a-E	X6A3	4	-	4	
"	"	486,827	2	-	2	
8-13-53	"	"	3	1	4	
"	"	X6A3	4	-	4	
"	103a-O	X5D3	4	-	4	
8-14-53	"	"	2	-	2	
"	103a-E	X6A3	1	1	2	
8-15-53	"	"	4	-	4	
"	103a-O	X5D3	6	-	6	
8-17-53	"	"	2	-	2	
"	103a-E	X6A3	2	-	2	
8-18-53	"	"	2	2	4	
"	103a-O	X5D3	2	-	2	

Observing Schedule

Run No. 48

SEPTEMBER, 1953

date	start	stop	number of plates	number of survey pr.	observer	temp.	wind	sky	seeing
Sept 1/2	E = 1938	Mr= 2358	4	0	Harrington	61°	S.E.	Clear	1-2
2/3	1937	0058	8	4	"	61°	N.W.	"	1-2+
3/4	1935	0158	0	0	"	62°	N.W.	"	1
4/5	1934	0258	6	3	"	61°	N.W.	"	1-2+
5/6	1933	0356	8	4	"	68°	S.E.	clouds by 12:30	2-4
6/7	1931	D = 0400	4	2	"	70°	"	clouds by 11:30	2-3
7/8	1930	0401	6	3	"	66°	"	clouds by 12:00	2-3+
8/9	1929	0402	4	0	Abell	75°	NE	Scattered clouds especially after 2:00	1-3
9/10	1927	0402	1	0	"	72°	NW	cloudy	1+
10/11	1925	0403	0	0	"	70°	N	broken	
11/12	1923	0404	3	0	"	76°	NW	Partly cloudy	1-2
12/13	Ms= 1958	0405	4	0	"	76°	SE	cloudy after 2300	2-3
13/14	2035	0405	2	0	"	75°	—	Thin clouds	2-3
14/15	2120	0406	13	4	"	71°	NW	clear	1-3
15/16	2211	0407	11	5	"	68°	NE	clear	1-3
16/17	2310	0408	8	4	"	66°	-	clear	1-3
			82	29					

Run No. 48
SEPTEMBER, 1953

date	Program	Plate No.	Emulsion Type	Emulsion Number	α	β	Filter
Sept. 1/2	—	F-1	103a-0	X5D3			
"	—	F-2	103a-E	X5J2			#49
"	—	T-1	"	"	Polar Plate		"
"	—	PS-632	"	"	0 ^h 0 ^m -13° 30'		"
Sept. 2/3	Survey	O-801	103a-0	X5D3	18 ^h 8 ^m	+72°	
"	"	E-801	103a-E	X5J2	"	"	"
"	"	O-802	103a-0	X5D3	20 ^h 0 ^m	+84°	
"	"	E-802	103a-E	X5J2	"	"	"
"	"	O-803	103a-0	X5D3	21 ^h 14 ^m	+30°	
"	"	E-803	103a-E	X5J2	"	"	"
"	"	O-804	103a-0	X5D3	22 ^h 24 ^m	-6°	
"	"	E-804	103a-E	X5J2	"	"	"
Sept. 3/4	No	Observations					
Sept. 4/5	Survey	O-805	103a-0	X5D3	20 ^h 0 ^m	+6°	
"	"	E-805	103a-E	X5J2	"	"	"
"	"	O-806	103a-0	X5D3	21 ^h 30 ^m	+42°	
"	"	E-806	103a-E	X5J2	"	"	"
"	"	O-807	103a-0	X5D3	0 ^h 0 ^m	+60°	
"	"	E-807	103a-E	X5J2	"	"	"
Sept. 5/6	"	O-808	103a-0	X5D3	18 ^h 24 ^m	+18°	
"	"	E-808	103a-E	X5J2	"	"	"
"	"	O-809	103a-0	X5D3	20 ^h 24 ^m	+72°	
"	"	E-809	103a-E	X5J2	"	"	"
"	"	O-810	103a-0	X5D3	21 ^h 12 ^m	-6°	
"	"	E-810	103a-E	X5J2	"	"	"
"	"	O-811	103a-0	X5D3	22 ^h 48 ^m	-6°	
"	"	E-811	103a-E	X5J2	"	"	"
Sept. 6/7	"	O-812	103a-0	X5D3	20 ^h 24 ^m	+12°	
"	"	E-812	103a-E	X5J2	"	"	"
"	"	O-813	103a-0	X5D3	21 ^h 12 ^m	-12°	
"	"	E-813	103a-E	X5J2	"	"	"
Sept. 7/8	"	O-814	103a-0	X5D3	19 ^h 16 ^m	+48°	
"	"	E-814	103a-E	X5J2	"	"	"
"	"	O-815	103a-0	X5D3	21 ^h 56 ^m	+36°	
"	"	E-815	103a-E	X5J2	"	"	"
"	"	O-816	103a-0	X5D3	22 ^h 48 ^m	0°	
"	"	E-816	103a-E	X5J2	"	"	"

Observing Log
Run No. 48
SEPTEMBER, 1953
(con't)

date	Program	Plate No.	Emulsion Type	Emulsion Number	α	δ	Filter	
Sept 8/9	Eastman	PS-633	103a-O	X5D3	20 ^h 38 ^m 41 ^s	+44°04'55"		
"	Test	T-2	103a-E	X5J2	23 ^h 55 ^m 12 ^s	+24°51'48"	#49	
"	"	T-3	"	"	21 ^h 18 ^m 48 ^s	+23°38'39"	"	
"	Minkowski	PS-634	"	"	1 ^h 41 ^m	-34°	"	
Sept 9/10	Test	T-4	"	"	19 ^h 13 ^m 28 ^s	+30°26'16"	"	
Sept 10/11	No	Observations						
Sept 11/12	Test	T-5	"	"	23 ^h 18 ^m 22 ^s	+30°8'30"	"	
"	Focus	F-4	103a-O	486,773	2 ^h 28 ^m 07 ^s	+17°29'1"		
"	"	F-5	"	"	2 ^h 58 ^m 34 ^s	-27°50'13"		
Sept 12/13	"	F-6	"	"	about	+17°		
"	"	F-7	"	"	"	"	"	
"	"	F-8	103a-E	X5J2	"	"	"	
"	Eastman	PS-635	103a-O	X5D3	21 ^h 0 ^m 48 ^s	+43°58'50"		
Sept 13/14	Focus	F-9	103a-E	X5J2	21 ^h 44 ^m 41 ^s	+16°57'43"	"	
"	Minkowski	PS-636	103a-E	"	2 ^h 16 ^m	-40°	"	
Sept 14/15	Focus	F-10	"	"	20 ^h 1 ^m 12 ^s .7	+15°53'23"	"	
"	Minkowski	PS-637	"	"	21 ^h 12 ^m	-31°	"	Plate completely burned out - faulty emulsion?
"	Focus	F-11	"	"	21 ^h 19 ^m 46.3	+19°35'23"	"	
"	Eastman	PS-638	103a-O	X5D3	21 ^h 0 ^m 48 ^s	+43°58'50"		
"	"	PS-639	103a-E	X5J2	"	"	"	
"	Survey	E-817	"	"	22 ^h 32 ^m	+24°	"	
"	"	O-817	103a-O	X5D3	"	"	"	
"	"	E-818	103a-E	X5J2	0 ^h 26 ^m	-24°	"	
"	"	O-818	103a-O	X5D3	"	"	"	
"	"	E-819	103a-E	X5J2	1 ^h 36 ^m	-6°	"	
"	"	O-819	103a-O	X5D3	"	"	"	
"	"	O-820	"	"	3 ^h 36 ^m	-18°	"	
"	"	E-820	103a-E	X5J2	"	"	"	
Sept 15/16	Polar Alignment	T-6	"	"	0 ^h 25 ^m	west	"	
"	Survey	E-821	"	"	22 ^h 48 ^m	+6°	"	
"	"	O-821	103a-O	X5D3	"	"	"	
"	"	E-822	103a-E	X5J2	23 ^h 0 ^m	+78°	"	
"	"	O-822	103a-O	X5D3	"	"	"	
"	"	E-823	103a-E	X5J2	0 ^h 24 ^m	+12°	"	
"	"	O-823	103a-O	X5D3	"	"	"	
"	"	E-824	103a-E	X5J2	1 ^h 30 ^m	+42°	"	
"	"	O-824	103a-O	X5D3	"	"	"	

Observing Log

Run No. 48

SEPTEMBER, 1953

(con't)

date	Program	Plate No.	Emulsion Type	Emulsion Number	α	δ	Filter
Sept 15/16	Survey	O-825	1032-O	X5D3	3 ^h 36 ^m	-12°	
"	"	E-825	1032-E	X5J2	"	"	#49
Sept 16/17	"	E-826	1032-E	"	22 ^h 48 ^m	-12°	"
"	"	O-826	1032-O	X5D3	"	"	"
"	"	E-827	1032-E	X5J2	0 ^h 0 ^m	+78°	"
"	"	O-827	1032-O	X5D3	"	"	"
"	"	E-828	1032-E	X5J2	1 ^h 28 ^m	+60°	"
"	"	O-828	1032-O	X5D3	"	"	"
"	"	E-829	1032-E	X5J2	2 ^h 24 ^m	+12°	"
"	"	O-829	1032-O	X5D3	"	"	"

Supply Record
Run No. 48
SEPTEMBER, 1953

On Hand at Beginning of Run:

Plates	200" Vault	200" Darkroom	48"	open	ready box	total	Chemicals:	
O 420,649								
O 449,667	—	64x4	—	—	—	256	D-19	16
O 458,884	—	—	12x4	—	—	48	Naccofix Concentrate	22
O 486,773	33x2	—	3x2	—	—	72	Naccofix	20
O X5D3	102x2	—	5x2	—	—	414	Acetic Acid	4
E 486,815	—	60x2	—	—	—	120	Distilled Water	5
E 486,826	—	47x2	—	—	—	94		
E 486,827	—	41x2	—	—	—	82		
E 488,467	—	55x2	—	—	—	110		
E 488,520	—	63x2	—	—	—	126		
E 489,182	—	30x2	—	—	—	60		
E X5J2	70x2	—	3x2	—	—	146		
E X6A3	62x2	—	6x2	—	—	136		

Date	From	(or) To	Description:
9-2-53	200" Vault	48"	12 boxes (2) 103a-o, X5D3
"	"	"	" (2) 103a-E, X5J2
9-8-53	"	"	10 boxes (2) 103a-o, X5D3
"	"	"	" (2) 103a-E, X5J2

On Hand at end of Run:

O 420,649								
O 449,667	—	64x4	—	—	—	256		
O 458,884	—	—	12x4	—	—	48	D-19	34½
O 486,773	33x2	—	1x2	—	—	68	Naccofix Concentr.	18
O X5D3	180x2	—	9x2	—	1	379	Naccofix	20
E 486,815	—	60x2	—	—	—	120	Acetic Acid	4
E 486,826	—	47x2	—	—	—	94	Distilled Water	5
E 486,827	—	41x2	—	—	—	82		
E 488,467	—	55x2	—	—	—	110		
E 488,520	—	63x2	—	—	—	126		
E 489,182	—	30x2	—	—	—	60		
E X5J2	48x2	—	—	1	1	98		
E X6A3	62x2	—	6x2	—	—	136		

Plate Testing Record

Run No. 48

SEPTEMBER, 1953

date	Emulsion Type	Emulsion Number	Good	Break	Total	Remarks
9-1-53	103a-o	X5D3	1	1 ←	2	broken in box
"	103a-E	X5J2	4	—	4	
9-2-53	"	"	3	1.	4	
"	103a-o	X5D3	4	—	4	
9-4-53	"	"	4	—	4	
"	103a-E	X5J2	4	—	4	
9-5-53	"	"	6	—	6	
"	103a-o	X5D3	6	—	6	
9-6-53	"	"	4	—	4	
9-7-53	"	"	2	—	2	
"	103a-E	X5J2	6	—	6	
9-8-53	103a-E	X5J2	4	1 ←	5	broken in box
"	103a-o	X5D3	4	—	4	
9-9-53	103a-E	X5J2	6	—	6	
9-10-53	103a-o	X5D3	2	—	2	
"	"	486-773	2	—	2	
9-12-53	"	"	2	—	2	
9-14-53	103a-E	X5J2	2	—	2	
9-14-53	103a-E	X5J2	2	—	2	
9-15-53	"	"	6	—	6	
"	103a-o	X5D3	4	—	4	
9-16-53	"	"	4	—	4	
"	103a-E	X5J2	4	—	4	

Observing Schedule

Run No. 49

OCTOBER, 1953

date	start	stop	number of plates	number of survey pr.	observer	temp.	wind	sky	seeing
Sept 28/29	1859	Mr= 2151	6	0	Harrington	64°	Calm	clear	2-3
29/30	1857	2251	4	1	"	65°	"	"	2-1
30/1	1856	2352	8	4	"	65°	"	"	2-3-2
Oct 1/2	1855	0052	10	5	"	65°	Slight N.W.	"	2
2/3	1953	0151	0	0	"	60°	Gusty, N.E. Hazy?	"	<1
3/4	1852	0247	0	0	"	62°	" E.	clear	<1-1
4/5	1851	0342	0	0	"	66°	Strong E.	Clouds	1
5/6	1849	D = 0420	0	0	"	65°	Mod. E. Vrbl SE	thin clouds smoke Vrbl scattered clouds & smoke	1-2 1-3
6/7	1848	0421	6	0	Abell	67°	"	"	"
7/8	1847	0422	14	7	"	67°	NW	clear	1-3
8/9	1846	0423	7	2	"	66°	NW lgt, vrbl.	clear	1-2
9/10	1845	0423	14	6	"	63°	NW	clear	1-2
10/11	1843	0424	5	1	"	58°	NW (Strong)	Scattered clouds wet until 9:00	<1
11/12	Ms= 1918	0425	10	4	"	56°	NW	clear after	<1 to 3
12/13	2007	0426	9	3	"	53°	SE	clear	<1-2
13/14	2102	0427	13	4	"	56°	S Strong until 12:00	Scattered clouds till 12:00	2-4
14/15	2203	0427	6	2	"	56°	SE to NW	clear	1-2
15/16	2308	0428	8	0	"	56°	-	clear	1-2
16/17	0016	0429	1	0	"	55°	NW	Broken	2+
17/18	0125	0430	5	2	"	58°	NW	clear	1-3
18/19	0235	0431	0	0	"		S (Strong)	Overcast	
			126	41					

OCTOBER, 1953

date	program	Plate No.	Emulsion Type	Emulsion Number	Filter	exposure time	α	δ	H.A.
Sept. 28/29	Test	F-1	103a-o	X5D3					
"	"	F-2	103a-E	X5J2	#50				
"	"	T-1	"	"	#49	See Card	0h 54m	+70°	
"	"	T-2	"	"	"	"	21h 26m	+70°	
"	"	T-4	"	"	"	"	23h 45m	+23° 18'	
"	"	T-6	"	"	"	Polar Plate			
Sept. 29/30	Survey	O-830	103a-o	X5D3	—	12	19h 4m	+60°	1h 29m
"	"	E-830	103a-E	X5J2	50	45	"	"	0h 37m
"	Test	T-3	"	"	"	See card			
"	"	T-5	"	"	"	"			
Oct. 1/2	Survey	O-831	103a-o	X5D3		12	20h 48m	+18°	0h 55m
"	"	E-831	a-E	X5J2	50	45	"	"	0h 4m
"	"	O-832	a-o	X5D3		12	19h 56m	+78°	0h 54m
"	"	E-832	a-E	X5J2	"	45	"	"	23h 52m
"	"	O-833	a-o	X5D3		12	21h 0m	-12°	0h 53m
"	"	E-833	a-E	X5J2	"	45	"	"	0h 2m
"	"	O-834	a-o	X5D3		12	23h 12m	0°	0h 53m
"	"	E-834	a-E	X5J2	"	45	"	"	0h 2m
Oct. 1/2	"	O-835	a-o	X5D3		12	19h 36m	-6°	0h 50m
"	"	E-835	a-E	X5J2	"	45	"	"	0h 5m
"	"	O-836	a-o	X5D3		12	20h 48m	+6°	1h 53m
"	"	E-836	a-E	X5J2	"	45	"	"	0h 3m
"	"	O-837	a-o	X5D3		12	21h 32m	+54°	1h 21m
"	"	E-837	a-E	X5J2	"	45	"	"	0h 30m
"	"	O-838	a-o	X5D3		12	22h 52m	+36°	1h 11m
"	"	E-838	a-E	X5J2	"	45	"	"	0h 19m
"	"	O-839	a-o	X5D3		12	0h 0m	+48°	1h 12m
"	"	E-839	a-E	X5J2	"	45	"	"	0h 21m
Oct. 2/3	—	No Observations							
Oct. 3/4	—	"	"	"	"	"	"	"	"
Oct. 4/5	—	"	"	"	"	"	"	"	"
" 5/6	—	"	"	"	"	"	"	"	"
" 6/7	Zwicky	PS 640	1032-o	X5D3	—	12	23h 41m 8s	-4° 12' 25"	21h 17m
"	Minkowski	PS 641	103a-E	X5J2	#50	45	21h 13m 57s	-30° 42' 40"	0h 34m
"	Zwicky	PS 642	1032-o	X5D3	—	12	1h 6m 58s	-45° 39' 0"	22h 37m
"	"	PS 643	"	"	—	2 nd Trail Then slew	4h 33m 18s	+16° 27' 30"	20h 5m
"	Minkowski	PS 644	1032-E	X5J2	#50	45	4h 43m 24s	-30° 58' 15"	22h 57s

Observing Log

Run No. 49

OCTOBER, 1953

date	program	plate No.	Emulsion Type	Emulsion Number	Filter	exposure time	α	δ	H.A.
Sept. 28/29	Test	F-1	103a-0	X5D3					
"	"	F-2	103a-E	X5J2	#50				
"	"	T-1	"	"	#49	see Card	0h 54m	+70°	
"	"	T-2	"	"	"	"	21h 26m	+70°	
"	"	T-4	"	"	"	"	23h 45m	+23° 18'	
"	"	T-6	"	"	"	Polar Plate			
Sept. 29/30	Survey	O-830	103a-0	X5D3	—	12	19h 4m	+60°	1h 29m
"	"	E-830	103a-E	X5J2	50	45	"	"	0h 39m
"	Test	T-3	"	"	"	see Card			
"	"	T-5	"	"	"	"			
Oct. 1/2	Survey	O-831	103a-0	X5D3		12	20h 48m	+18°	0h 55m
"	"	E-831	a-E	X5J2	50	45	"	"	0h 4m
"	"	O-832	a-0	X5D3		12	19h 56m	+78°	23h 52m
"	"	E-832	a-E	X5J2	"	45	"	"	23h 52m
"	"	O-833	a-0	X5D3		12	21h 0m	-12°	0h 53m
"	"	E-833	a-E	X5J2	"	45	"	"	0h 2m
"	"	O-834	a-0	X5D3		12	23h 12m	0°	0h 53m
"	"	E-834	a-E	X5J2	"	45	"	"	0h 2m
Oct. 1/2	"	O-835	a-0	X5D3		12	19h 36m	-6°	0h 50m
"	"	E-835	a-E	X5J2	"	45	"	"	0h 5m
"	"	O-836	a-0	X5D3		12	20h 48m	+6°	1h 53m
"	"	E-836	a-E	X5J2	"	45	"	"	0h 3m
"	"	O-837	a-0	X5D3		12	21h 32m	+54°	1h 21m
"	"	E-837	a-E	X5J2	"	45	"	"	0h 30m
"	"	O-838	a-0	X5D3		12	22h 52m	+36°	1h 11m
"	"	E-838	a-E	X5J2	"	45	"	"	0h 19m
"	"	O-839	a-0	X5D3		12	0h 0m	+48°	1h 12m
"	"	E-839	a-E	X5J2	"	45	"	"	0h 21m
Oct. 2/3	—	No Observations							
Oct. 3/4	—	"	"	"	"	"	"	"	"
Oct. 4/5	—	"	"	"	"	"	"	"	"
" 5/6	—	"	"	"	"	"	"	"	"
" 6/7	Zwicky	PS 640	103a-0	X5D3	—	12	23h 41m 8s	-4° 12' 25"	21h 17m
"	Minkowski	PS 641	103a-E	X5J2	#50	45	21h 13m 57s	-30° 42' 40"	0h 34m
"	Zwicky	PS 642	103a-0	X5D3	—	12	1h 6m 58s	+5° 39' 0"	22h 37m
"	"	PS 643	"	"	—	2m Trail than slew	4h 33m 18s	+16° 27' 30"	20h 51m
"	Minkowski	PS 644	103a-E	X5J2	#50	45	4h 43m 24s	-30° 58' 15"	22h 59m

OCTOBER, 1953

(con't)

date	program	plate no.	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Oct 6/7	Bum	PS 645	103a-O	X5D3	-	12 ^m	0 ^h 40 ^m	+41°0'	4 ^h 1 ^m
Oct 7/8	Survey	E-840	103a-E	X5J2	#50	45 ^m	20 ^h 22 ^m	+30°	23 ^h 41 ^m
"	"	O-840	103a-O	X5D3	"	12 ^m	"	"	23 ^h 58 ^m
"	"	E-841	103a-E	X5J2	"	45 ^m	21 ^h 28 ^m	+78°	0 ^h 13 ^m
"	"	O-841	103a-O	X5D3	"	12 ^m	"	"	23 ^h 53 ^m
"	"	E-842	103a-E	X5J2	"	45 ^m	22 ^h 24 ^m	+18°	0 ^h 7 ^m
"	"	O-842	103a-O	X5D3	"	12 ^m	"	"	0 ^h 59 ^m
"	"	E-843	103a-E	X5J2	"	45 ^m	23 ^h 24 ^m	+24°	0 ^h 19 ^m
"	"	O-843	103a-O	X5D3	"	12 ^m	"	"	1 ^h 11 ^m
"	"	E-844	103a-E	X5J2	"	45 ^m	1 ^h 32 ^m	+78°	0 ^h 20 ^m
"	"	O-844	103a-O	X5D3	"	12 ^m	"	"	1 ^h 12 ^m
"	"	E-845	103a-E	X5J2	"	45 ^m	2 ^h 50 ^m	+78°	0 ^h 16 ^m
"	"	O-845	103a-O	X5D3	"	12 ^m	"	"	1 ^h 8 ^m
"	"	E-846	103a-E	X5J2	"	45 ^m	4 ^h 26 ^m	+54°	23 ^h 53 ^m
"	"	O-846	103a-O	X5D3	"	12 ^m	"	"	0 ^h 47 ^m
Oct 8/9	Focus	F-3	103a-E	X5J2	#53	7 1 ^m exp's	22 ^h 41 ^m 11 ^s	+19°7'6"	23 ^h 51 ^m
"	Polar Axis	T-7	103a-O	X5D3	"	Total: 13 ^m	Pole	"	25 ^m
"	"	T-8	"	"	"	"	"	"	"
"	Survey	E-847	103a-E	X5J2	"	45 ^m	3 ^h 2 ^m	+30°	0 ^h 3 ^m
"	"	O-847	103a-O	X5D3	"	12 ^m	"	"	0 ^h 54 ^m
"	"	E-848	103a-E	X5J2	"	45 ^m	4 ^h 32 ^m	+48°	23 ^h 46 ^m
"	"	O-848	103a-O	X5D3	"	12 ^m	"	"	0 ^h 38 ^m
Oct 9/10	Test (Polar Axis)	T-9	103a-E	X5J2	"	Total 16 ^m	Pole	"	25 ^m
"	Survey	E-849	103a-E	X5J2	"	45 ^m	20 ^h 22 ^m	+24°	0 ^h 34 ^m
"	"	O-849	103a-O	X5D3	"	12 ^m	"	"	1 ^h 24 ^m
"	"	E-850	103a-E	X5J2	"	45 ^m	22 ^h 0 ^m	-18°	0 ^h 8 ^m
"	"	O-850	103a-O	X5D3	"	12 ^m	"	"	1 ^h 2 ^m
"	Polar Axis	T-10	103a-E	X5J2	"	Total 16 ^m	Pole	"	25 ^m W
"	Survey	E-851	"	"	"	45^m	0 ^h 30 ^m	+42°	0 ^h 16 ^m
"	"	O-851	103a-O	X5D3	"	12 ^m	"	"	1 ^h 8 ^m
"	"	E-852	103a-E	X5J2	"	45 ^m	2 ^h 0 ^m	+0°	0 ^h 0 ^m
"	"	O-852	103a-O	X5D3	"	12 ^m	"	"	0 ^h 51 ^m
"	"	E-853	103a-E	X5J2	"	45 ^m	3 ^h 4 ^m	+78°	0 ^h 2 ^m
"	"	O-853	103a-O	X5D3	"	12 ^m	"	"	0 ^h 55 ^m
"	"	E-854	103a-E	X5J2	"	45 ^m	4 ^h 0 ^m	+12°	0 ^h 26 ^m
"	"	O-854	103a-O	X5D3	"	12 ^m	"	"	1 ^h 16 ^m
Oct 10/4	"	E-855	103a-E	X5J2	"	45 ^m	20 ^h 24 ^m	-12°	23 ^h 55 ^m
"	"	O-855	103a-O	X5D3	"	12 ^m	"	"	0 ^h 2 ^m

Observing Log

Run No. 49

OCTOBER, 1953

(con't)

date	program	plate no.	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Oct 11/11	Test	T-11	1032-E	X5J2	#53	16 ^m	Pole		25 ^m
"	"	T-12	1032-O	X5D3		16 ^m	Pole		0 ^m
"	Zwicky	PS-646 (Seignig)	1032-E	X5J2	#53	2 ^m Trail & slew	Capella		21 ^h 42 ^m
Oct 11/12	Test	T-13	1032-O	X5D3		8 ^h 1 ^m	(Polar axis)	at equator	25 ^m W
"	Survey	E-856	1032-E	X5J2	#53	45 ^m	23 ^h 36 ^m	+18°	23 ^h 47 ^m
"	"	O-856	1032-O	X5D3		12 ^m	"	"	23 ^h 29 ^m
"	"	E-857	1032-E	X5J2	#53	45 ^m	0 ^h 52 ^m	+24°	23 ^h 42 ^m
"	"	O-857	1032-O	X5D3		12 ^m	"	"	23 ^h 24 ^m
"	"	E-858	1032-E	X5J2	"	45 ^m	2 ^h 10 ^m	+24°	0 ^h 0 ^m
"	"	O-858	1032-O	X5D3		12 ^m	"	"	0 ^h 52 ^m
"	"	E-859	1032-E	X5J2	"	45 ^m	3 ^h 0 ^m	+42°	0 ^h 21 ^m
"	"	O-859	1032-O	X5D3		12 ^m	"	"	1 ^h 12 ^m
"	Minkowski	PS-647	1032-E	X5J2	"	45 ^m	4 ^h 20 ^m	-42°	0 ^h 36 ^m
Oct 12/13	Test	T-14	1032-O	X5J2		8 ^m total	Pole at 10 ^m E		23 ^h 50 ^m
"	Survey	E-860	1032-E	X5J2	"	45 ^m	21 ^h 36 ^m	+6°	0 ^h 3 ^m
"	"	O-860	1032-O	X5D3	"	12 ^m	"	"	0 ^h 54 ^m
"	Minkowski	PS-648	1032-E	X5J2	"	45 ^m	23 ^h 46 ^m 43 ^s	-34° 17' 5"	0 ^h 2 ^m
"	"	PS-649	"	"	"	45 ^m	0 ^h 21 ^m 14 ^s	-30° 3' 55"	0 ^h 25 ^m
"	Survey	E-861	"	"	"	45 ^m	1 ^h 42 ^m	+48°	0 ^h 51 ^m
"	"	O-861	1032-O	X5D3		12 ^m	"	"	1 ^h 42 ^m
"	"	E-862	1032-E	X5J2	"	45 ^m	4 ^h 36 ^m	+78°	0 ^h 32 ^m
"	"	O-862	1032-O	X5D3		12 ^m	"	"	23 ^h 42 ^m
Oct 13/14	Test	T-15	1032-E	X5J2	"	11 ^m	Pole at 40 ^m E		23 ^h 20 ^m
"	"	T-16	1032-O	X5D3		8 ^m	" at 20 ^m W		0 ^h 20 ^m
"	"	T-17	1032-E	X5J2	"	11 ^m	" at 50 ^m W		0 ^h 50 ^m
"	"	T-18	1032-O	X5D3		8 ^m	" at 1 ^h 20 ^m		1 ^h 20 ^m
"	Zwicky	PS 650	"	"		12 ^m	23 ^h 41 ^m 45 ^s	-4° 39' 30"	23 ^h 12 ^m
"	Survey	O-863	"	"		12 ^m	1 ^h 8 ^m	+48°	0 ^h 37 ^m
"	"	E-863	1032-E	X5J2	"	45 ^m	"	"	23 ^h 44 ^m
"	"	O-864	1032-O	X5D3		12 ^m	2 ^h 48 ^m	-12°	0 ^h 40 ^m
"	"	E-864	1032-E	X5J2	"	45 ^m	"	"	23 ^h 49 ^m
"	"	O-865	1032-O	X5D3		12 ^m	3 ^h 24 ^m	+72°	1 ^h 10 ^m
"	"	E-865	1032-E	X5J2	"	45 ^m	"	"	0 ^h 18 ^m
"	"	O-866	1032-O	X5D3		12 ^m	4 ^h 32 ^m	+72°	0 ^h 16 ^m
"	"	E-866	1032-E	X5J2	"	45 ^m	"	"	23 ^h 25 ^m
Oct 14/15	Focus	F-4	"	"	#55		0 ^h 53 ^m 31 ^s	+13° 40' 53"	23 ^h 50 ^m
"	"	F-5	1032-O	X5D3			1 ^h 18 ^m 40 ^s	+11° 16' 30"	23 ^h 46 ^m

OVER
(cont)

OCTOBER, 1953

Oct 10/19	No Observations
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Supply Record

Run No. 49

OCTOBER, 1953

On hand at beginning of run:

plates	200" vault	200" Darkroom	48"	open	ready box	total		
O 449,667	—	64x4	—	—	—	256	Chemicals:	
O 458,884	—	—	12x4	—	—	48		
O 486,773	33x2	—	1x2	—	—	68		
O X5D3	180x2	—	9x2	—	1	379	D-19	32 ¹ / ₂
E 486,815	—	60x2	—	—	—	120	Naccofix	
E 486,826	—	47x2	—	—	—	94	Concentrate	18
E 486,827	—	41x2	—	—	—	82	Naccofix	15
E 488,467	—	55x2	—	—	—	110	Acetic	
E 488,520	—	63x2	—	—	—	126	Acid	4
E 489,182	—	30x2	—	—	—	60	Distilled	
E X5J2	48x2	—	—	1	1	96	Water	5
E X6A3	62x2	—	6x2	—	—	136		

Date	From (or)	To	Description	
Between runs	48"	200"	naccofix	5 gal.
"	48"	200"	D-19	2 "
Sept. 28	200"	48"	X5D3	4x2 = 8 Plates
"	"	"	X5J2	20x2 = 40 "
Oct. 3	"	"	X5D3	15x2 = 30 "
"	"	"	X5J2	16x2 = 32 "
Oct 8			D-19	40 gal
at 13	48	Received	D-19	1 gal
Oct 14	200	200	5x2 boxes of X5J2; 10 x2 boxes X5D3; 3x2 boxes 486,773	

On Hand at end of Run:

449,667	-	64x4	-	-	-	256	D-19 Naccofix Concentra. Naccofix Acetic Acid Distilled Water	46 1/2 14 14 3 1/4 5
458,884	-	-	11x4	-	-	44		
486,773	30x2	-	1x2	-	-	62		
X5D3	151x2	-	7x2	-	3	319		
486,815	-	60x2	-	-	-	120		
486,826	-	47x2	-	-	-	94		
486,827	-	41x2	-	-	-	82		
488,467	-	55x2	-	-	-	110		
488,520	-	63x2	-	-	-	126		
489,182	-	30x2	-	-	-	60		
X5J2	7x2	-	8x2	-	4	34		
X6A3	62x2	-	6x2	-	-	136		

date	Emulsion Type	Emulsion Number	good	break	total	Remarks
Sept. 28	103a-E	X5J2	5	—	5	
Sept. 29	"	"	4	—	4	
"	103a-O	X5D3	4	—	4	
Sept. 30	"	"	2	—	2	
"	103a-E	X5J2	2	—	2	
Oct. 1	"	"	6	—	6	
"	103a-O	X5D3	4	—	4	
Oct. 2	"	"	6	—	6	
"	103a-E	X5J2	4	—	4	
Oct 6	"	"	3	1*	4	* Broken in box
"	103a-O	X5D3	2	—	2	
Oct 7	"	"	4	—	4	
Oct 7	103a-E	X5J2	4	—	4	
Oct 8	"	"	8	—	8	
"	103a-O	X5D3	8	—	8	
Oct 9	"	"	6	—	6	
"	103a-E	X5J2	4	—	4	
Oct 10	"	"	8	—	8	
"	103a-O	X5D3	8	—	8	
Oct 12	"	X5D3	4	—	4	
"	103a-O	486773	1	1*	2	* Broken in box
"	103a-E	X5J2	4	—	4	
Oct 13	"	"	6	—	6	
"	103a-O	X5D3	3	1*	4	* Broken in box
Oct 14	"	"	4	—	4	
"	"	458884	3	1*	4	* " " "
"	103a-E	X5J2	3	1*	4	* " " "
Oct 15	"	"	4	—	4	
"	103a-O	X5D3	4	—	4	
"	103a-O	486773	4	—	4	
Oct 18	"	X5D3	2	—	2	

Observing Schedule

Run No. 50

NOVEMBER, 1953

date	start	stop	No. of plates	No. survey pair	observer	temp.	wind	sky	seeing
Oct 27/28	1824	2142	4	0	Harrington		N.E.	Clear	1-1+
28/29	1823	2244	6	3	"	50°	Calm	"	2
29/30	1823	2343	0	0	"	"	N.W.	"Muddy"	1-2
30/31	1822	0041	10	5	"	"	N.W. Breeze	Clear	2, 2-
31/1	1821	0137	2	1	"	52°	Calm	overcast clouds	2-3-2
Nov 1/2	1820	0231	0	0	"		"	overcast	
2/3	1819	0326	0	0	"		S.E.	"	
3/4	1818	0421	5	0	"	43°	N.W.	Clouds by 1:30	<1-1
4/5	1818	D = 0443	0	0	"		Storm		
5/6	1817	0444	0	0	"		"		
6/7	1816	0445	4	2	Abell	47°	SE Strong	Clear	<1-2
7/8	1816	0446	0	0	"	45	E-Strong	Clear	<1
8/9	1815	0446	4	2	"	54°	"	"	<1-2
9/10	1858	0447	0	0	"	52°	SE	Overcast	?
10/11	1957	0448	15	6	"	54°	SE to S	Clear	3-4
11/12	2105	0448	14	6	"	54°	SE to NW	Clear	3-4
12/13	2207	0449	13	5	"	52°	SE	"	"
13/14	2313	0450	0	0	"	44°	SW	Cloudy	-
14/15	0020	0450	0	0	"	50°	SE	Overcast	-
15/16	0127	0451	5	1	"	50°	NW	Clear	<1-1
			82	31					

Observing Log
Run No. 50
NOVEMBER, 1953

[illegible]

Observing Log
Run No. 50
NOVEMBER, 1953
(con't)

date	program	plate No.	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Nov 8/9	Survey	E-882	103a-E	X5J2	#55	45 ^m	22 ^h 24 ^m	-12°	0 ^h 27 ^m
"	"	O-882	O	X5D3	"	12 ^m	"	"	1 ^h 19 ^m
"	"	E-883	E	X5J2	#55	45 ^m	0 ^h 0 ^m	+6°	0 ^h 6 ^m
"	"	O-883	O	X5D3	"	12 ^m	"	"	1 ^h 59 ^m
Nov 9/10	No	Observations							
Nov 10/11	Minkowski	PS 659	1032-E	X5J2	#55	45 ^m	21 ^h 37 ^m 24 ^s	+57°15'45"	1 ^h 32 ^m
"	Survey	E-884	1032-E	"	"	"	0 ^h 24 ^m	-18°	23 ^h 35 ^m
"	"	O-884	O	X5D3	"	12 ^m	"	"	0 ^h 26 ^m
"	"	E-885	E	X5J2	"	45 ^m	1 ^h 36 ^m	+18°	23 ^h 32 ^m
"	"	O-885	O	X5D3	"	12 ^m	"	"	0 ^h 24 ^m
"	"	E-886	E	X5J2	"	45 ^m	2 ^h 24 ^m	-12°	23 ^h 55 ^m
"	"	O-886	O	X5D3	"	12 ^m	"	"	0 ^h 45 ^m
"	"	E-887	E	X5J2	"	45 ^m	4 ^h 24 ^m	+6°	23 ^h 43 ^m
"	"	O-887	O	X5D3	"	12 ^m	"	"	0 ^h 34 ^m
"	Deutsch	PS 660	O	"	"	"	"	" (1855)	0 ^h 53 ^m
"	Survey	E-888	E	X5J2	"	45 ^m	5 ^h 38 ^m	-24°	0 ^h 2 ^m
"	"	O-888	O	X5D3	"	12 ^m	"	"	0 ^h 52 ^m
"	"	E-889	E	X5J2	"	45 ^m	7 ^h 0 ^m	+36°	23 ^h 41 ^m
"	"	O-889	O	X5D3	"	12 ^m	"	"	0 ^h 36 ^m
"	Sandage (M.B.)	PS-661	O	"	"	"	9 ^h 58 ^m 26 ^s	+69°16'15"	22 ^h 6 ^m
Nov 11/12	Polar fluxure	T-28	O	"	-	4.5 ^m	Pole at various H.A.'s		
"	Survey	E-890	E	X5J2	"	45 ^m	0 ^h 24 ^m	-12°	0 ^h 18 ^m
"	"	O-890	O	X5D3	"	12 ^m	"	"	1 ^h 8 ^m
"	Zwicky	PS-662	O	"	"	"	1 ^h 6 ^m 50 ^s	-15°51'31"	0 ^h 51 ^m
"	Survey	E-891	E	X5J2	"	45 ^m	2 ^h 0 ^m	-18°	0 ^h 10 ^m
"	"	O-891	O	X5D3	"	12 ^m	"	"	1 ^h 0 ^m
"	"	E-892	E	X5J2	"	45 ^m	3 ^h 36 ^m	-6°	23 ^h 42 ^m
"	"	O-892	O	X5D3	"	12 ^m	"	"	0 ^h 32 ^m
"	"	E-893	E	X5J2	"	45 ^m	4 ^h 46 ^m	-24°	0 ^h 9 ^m
"	"	O-893	O	X5D3	"	12 ^m	"	"	0 ^h 59 ^m
"	"	E-894	E	X5J2	"	45 ^m	6 ^h 0 ^m	-18°	0 ^h 2 ^m
"	"	O-894	O	X5D3	"	12 ^m	"	"	0 ^h 52 ^m
"	"	E-895	E	X6A3	"	45 ^m	7 ^h 12 ^m	-12°	0 ^h 0 ^m
"	"	O-895	O	X5D3	"	12 ^m	"	"	0 ^h 48 ^m
Nov 12/13	Focus	F-3	O	"	"	4.5 ^m	0 ^h 24 ^m 55 ^s	+15°44'55"	0 ^h 48 ^m
"	Survey	E-896	E	X6A3	"	45 ^m	1 ^h 44 ^m	+24	23 ^h 44 ^m
"	"	O-896	O	X5D3	"	12 ^m	"	"	0 ^h 34 ^m

Observing Log
Run No. 50
NOVEMBER, 1953
(con't)

date	program	plate no.	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Nov 12/13	Survey	E-897	103a-E	XGA3	#55	45 ^m	3 ^h 2 ^m	-24°	23 ^h 38 ^m
"	"	O-897	O	X5D3		12 ^m	"	"	0 ^h 27 ^m
"	"	E-898	E	XGA3	"	45 ^m	4 ^h 48 ^m	-12°	23 ^h 52 ^m
"	"	O-898	O	X5D3		12 ^m	"	"	0 ^h 42 ^m
"	Deutsch	PS-663	O	"		"	"	"	1 ^h 0 ^m
"	Survey	E-899	E	XGA3	"	45 ^m	6 ^h 0 ^m	-12°	0 ^h 6 ^m
"	"	O-899	O	X5D3		12 ^m	"	"	0 ^h 55 ^m
"	Deutsch	PS-664	O	"		"	"	"	1 ^h 13 ^m
"	Survey	E-900	E	XGA3	"	45 ^m	7 ^h 12 ^m	-6°	0 ^h 38 ^m
"	"	O-900	O	X5D3		12 ^m	"	"	0 ^h 21 ^m
Nov 13/14	No	Observations							
Nov 14/15	"	"							
Nov 15/16	Focus	F-4	O	X5D3		9 x 1/2 ^m	5 ^h 21 ^m 32 ^s → -7° 51' 9 ^s →		23 ^h 48 ^m
"	Abell	PS-665	O	"		12 ^m	5 ^h 32 ^m 54 ^s	-5° 25'	23 ^h 54 ^m
"	"	PS-666	E	XGA3		7 ^m	"	"	0 ^h 12 ^m
"	Survey	E-901	E	"	"	45 ^m	6 ^h 24 ^m	-18°	23 ^h 30 ^m
"	"	O-901	O	X5D3		12 ^m	"	"	0 ^h 19 ^m

Supply Record

Run No. 50

NOVEMBER, 1953

On hand at beginning of run:

plates	200" vault	200" darkroom	48"	open	ready box	total	Chemicals:	
O 449,667	—	64x4	—	—	—	256		
O 458,884	—	—	11x4	—	—	44	D-19	46 1/2
O 486,773	30x2	—	1x2	—	—	62	Naccofix Conc.	12
O X5D3	151x2	—	7x2	—	3	319	Naccofix	14
E 486,815	—	60x2	—	—	—	120	Acetic Acid	3 1/4
E 486,826	—	47x2	—	—	—	94	Distilled Water	5
E 486,827	—	41x2	—	—	—	82		
E 488,467	—	55x2	—	—	—	110		
E 488,520	—	63x2	—	—	—	126		
E 489,182	—	30x2	—	—	—	60		
E X5J2	7x2	—	8x2	—	4	34		
E X6A3	62x2	—	6x2	—	—	136		

Date Between Runs	From (or)	To	Description	
Oct. 27	48"	200	1 gal. Naccofix Concentrate	
"	"	"	103a-o (X5D3)	10x2 = 20 Plates
"	"	"	103a-E (X5J2)	7x2 = 14 "
Nov. 2	48"	200	8 gal. D-19	
Nov 11	200	48	103a-o (X5D3)	10x2 = 20
"	"	"	" (486773)	2x2 = 4
"	"	"	103a-E X6A3	6x2 = 12

On Hand at end of run:

O 449,667	—	64x4	—	—	—	256		
O 458,884	—	—	11x4	—	—	44	D19	21 1/2
O 486,773	28x2	—	3x2	—	—	62	Naccofix Conc.	10
O X5D3	131x2	—	4x2	—	4	274	Naccofix	13
E 486,815	—	60x2	—	—	—	120	Acetic Acid	3 3/8
E 486,826	—	47x2	—	—	—	94	Distilled Water	1
E 486,827	—	41x2	—	—	—	82		
E 488,467	—	55x2	—	—	—	110		
E 488,520	—	63x2	—	—	—	126		
E 489,182	—	30x2	—	—	—	60		
E X5J2	—	—	—	—	—	0		
E X6A3	56x2	—	6x2	—	3	127		

Plate Testing Record

Run No. 50

NOVEMBER, 1953

date	Emulsion Type	Emulsion Number	good	break	total	Remarks
Oct. 28	103a-o	X5D3	2	—	2	
"	103a-E	X5J2	3	1	4	
Oct. 29	"	"	4	—	4	
"	103a-o	X5D3	5	1	6	Broken in box
Oct. 30	103a-E	X5J2	2	—	2	
Oct. 31	"	"	6	—	6	
"	103a-o	X5D3	6	—	6	
Nov. 4	"	"	2	—	2	
"	103a-E	X5J2	4	—	4	
Nov 6	"	"	2	—	2	
"	103a-o	X5D3	2	—	2	
Nov 7	"	"	4	—	4	
"	103a-E	X5J2	4	—	4	
Nov 11	"	"	4	—	4	
"	"	X6A3	2	—	2	
"	103a-o	X5D3	10	—	10	
Nov 12	"	"	7	1	8	
"	103a-E	X6A3	5	1	6	

Observing Schedule

Run No. 51

NOVEMBER-- DECEMBER, 1953

date	start	stop	No. of plates	No. of Survey Pr.	Observer	temp	wind	sky	seeing
Nov 27/28	E= 1808	Mr= 2327	12	0	Abell	58°	NW (light)	broken & scattered till 9:30; then clear	1-2+
28/29	1808	0022	6	3	"	56°	NW	clear to 10 than thin cld	<1-2
29/30	1808	0118	14	5	"	58°	E-SE	Clear	1-3
30/1	1808	0212	3	0	"	52°	W	scattered to overcast	<<1
Dec 1/2	1807	0309	0	0	"	42°	N	Scattered	<<1
2/3	1807	0407	2	0	"	44°	NW	Some High clouds (?)	<<1
3/4	1807	D = 0506	0	0	"	38°	SW	scattered to overcast	<1-2
4/5	1807	0507	0	0	"	38°	NW	Clear	<<1
5/6	1807	0508	9	4	"	44°	NW	Clear till 12:30	<1-3
6/7	1807	0508	18	9	"	44°	NW	clear	1-3
7/8	1807	0509	0	0	Harrington	33°	W	thin Clouds	<1 Soft
8/9	Ms= 1854	0510	0	0	"	38°	Strong N.	" "	<<1
9/10	2000	0511	6	3	"	45°	N.E.	clear	<1-2
10/11	2106	0511	0	0	"	34°	N.W.	overcast	<<1
11/12	2312	0512	0	0	"	41°	N.E.	scattered	<1
12/13	2318	0513	0	0	"	54°	Very Strong N.E. Gusty	clouds	<1
13/14	0025	0513	0	0	"	55°	"	clear?	<1
14/15	0138	0514	5	0	"	54°	N.E.	" ?	1-41
15/16	0242	0514	0	0	"			Clouds	
16/17	0353	0515	0	0	"				
				29					

Observing Log

Run No. 51

NOVEMBER - DECEMBER, 1953

date	program	plate no.	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Nov 27/28	Tests	F-5	103a-O	X5D3	# -	9x1/2 ^m	2 ^h 19 ^m 47 ^s	+16°38'35"	23 ^h 51 ^m
"	"	F-6	E	X6A3	#55	9x1 ^m	2 ^h 57 ^m 42 ^s	+17°48'27"	23 ^h 28 ^m
"	"	F-7	O	X5D3	"	9x1/2 ^m	"	"	23 ^h 46 ^m
"	"	F-8	E	X6A3	"	9x1 ^m	"	"	23 ^h 58 ^m
"	"	F-9	O	X5D3	"	9x1/2 ^m	3 ^h 31 ^m 17 ^s	+17°40'12"	23 ^h 42 ^m
"	"	F-10	E	X6A3	"	9x1 ^m	"	"	23 ^h 54 ^m
"	"	F-11	O	X5D3	"	9x1/2 ^m	4 ^h 2 ^m 52 ^s	-30°21'24"	23 ^h 41 ^m
"	"	F-12	E	X6A3	"	9x1 ^m	"	"	23 ^h 54 ^m
"	"	F-13	O	486,773	"	9x1/2 ^m	"	"	0 ^h 44 ^m
"	"	F-14	E	X6A3	"	9x1 ^m	5 ^h 24 ^m 8 ^s	-32°15'5"	23 ^h 35 ^m
"	"	F-15	O	486,773	"	9x1/2 ^m	"	"	23 ^h 50 ^m
"	"	F-16	E	X6A3	"	9x1 ^m	"	"	0 ^h 40 ^m
Nov 27/28	Survey	E-902	E	"	"	45 ^m	22 ^h 58 ^m	-24°	0 ^h 2 ^m
"	"	O-902	O	X5D3	"	12 ^m	"	"	0 ^h 52 ^m
"	"	E-903	E	X6A3	"	45 ^m	0 ^h 24 ^m	+18°	23 ^h 45 ^m
"	"	O-903	O	X5D3	"	12 ^m	"	"	0 ^h 37 ^m
"	"	E-904	E	X6A3	"	45 ^m	1 ^h 36 ^m	-12°	23 ^h 45 ^m
"	"	O-904	O	X5D3	"	12 ^m	"	"	0 ^h 34 ^m
Nov 29/30	"	E-905	E	X6A3	"	45 ^m	22 ^h 48 ^m	0°	23 ^h 56 ^m
"	"	O-905	O	X5D3	"	12 ^m	"	"	0 ^h 47 ^m
"	Abell	PS-667	E	X6A3	Yellow Plex	30 ^m	0 ^h 24 ^m	+18°	23 ^h 36 ^m
"	Survey	E-906	E	"	#55	45 ^m	0 ^h 48 ^m	-18°	23 ^h 49 ^m
"	"	O-906	O	X5D3	"	12 ^m	"	"	0 ^h 40 ^m
"	"	E-907	E	X6A3	"	45 ^m	2 ^h 16 ^m	+48°	23 ^h 31 ^m
"	"	O-907	O	X5D3	"	12 ^m	"	"	0 ^h 22 ^m
"	"	E-908	E	X6A3	"	45 ^m	3 ^h 28 ^m	-24°	23 ^h 32 ^m
"	"	O-908	O	X5D3	"	12 ^m	"	"	0 ^h 22 ^m
"	Abell	PS-668	E	X6A3	"	9 ^m	5 ^h 32 ^m 54 ^s	-5°25'0"	23 ^h 11 ^m
"	Survey	E-909	E	"	"	45 ^m	5 ^h 12 ^m	0°	0 ^h 1 ^m
"	"	O-909	O	X5D3	"	12 ^m	"	"	23 ^h 43 ^m
"	Greenstein	PS-669	O	"	"	7 ^s	7 ^h 48 ^m	+66°	22 ^h 16 ^m
"	"	PS-670	E	X6A3	"	27 ^s	"	"	22 ^h 22 ^m
Nov 30/1	Zwicky	PS-671	O	486,773	"	1 ^m Trail: then slow	18 ^h 35 ^m 20 ^s	+38°44'15"	4 ^h 26 ^m
"	"	PS-672	E	X6A3	"	"	5 ^h 13 ^m 12 ^s	+45°57'9"	18 ^h 1 ^m
"	Survey Check Plate	E-561	E	"	"	45 ^m	0 ^h 40 ^m	+72°	0 ^h 36 ^m
Dec 1/2	No	Observations							

Run No. 51

NOVEMBER -DECI MBER, 1953

date	program	plate no.	emulsion type	number	filter	exposure time	α	δ	H.A.
Nov 27/28	Tests	F-5	103a-O	X5D3	# -	9x1/2 ^m	2 ^h 19 ^m 47 ^s	+16°38'35"	23 ^h 51 ^m
"	"	F-6	E	X6A3	#55	9x1 ^m	2 ^h 57 ^m 42 ^s	+17°48'27"	23 ^h 28 ^m
"	"	F-7	O	X5D3	"	9x1/2 ^m	"	"	23 ^h 46 ^m
"	"	F-8	E	X6A3	"	9x1 ^m	"	"	23 ^h 58 ^m
"	"	F-9	O	X5D3	"	9x1/2 ^m	3 ^h 31 ^m 17 ^s	+17°40'12"	23 ^h 42 ^m
"	"	F-10	E	X6A3	"	9x1 ^m	"	"	23 ^h 54 ^m
"	"	F-11	O	X5D3	"	9x1/2 ^m	4 ^h 2 ^m 52 ^s	-30°21'24"	23 ^h 41 ^m
"	"	F-12	E	X6A3	"	9x1 ^m	"	"	23 ^h 54 ^m
"	"	F-13	O	486,773	"	9x1/2 ^m	"	"	0 ^h 44 ^m
"	"	F-14	E	X6A3	"	9x1 ^m	5 ^h 24 ^m 8 ^s	-32°15'5"	23 ^h 35 ^m
"	"	F-15	O	486,773	"	9x1/2 ^m	"	"	23 ^h 50 ^m
"	"	F-16	E	X6A3	"	9x1 ^m	"	"	0 ^h 40 ^m
Nov 29/30	Survey	E-902	E	"	"	45 ^m	22 ^h 58 ^m	-24°	0 ^h 2 ^m
"	"	O-902	O	X5D3	"	12 ^m	"	"	0 ^h 52 ^m
"	"	E-903	E	X6A3	"	45 ^m	0 ^h 24 ^m	+18°	23 ^h 45 ^m
"	"	O-903	O	X5D3	"	12 ^m	"	"	0 ^h 37 ^m
"	"	E-904	E	X6A3	"	45 ^m	1 ^h 36 ^m	-12°	23 ^h 45 ^m
"	"	O-904	O	X5D3	"	12 ^m	"	"	0 ^h 34 ^m
Nov 29/30	"	E-905	E	X6A3	"	45 ^m	22 ^h 48 ^m	0°	23 ^h 56 ^m
"	"	O-905	O	X5D3	"	12 ^m	"	"	0 ^h 47 ^m
"	Abell	PS-667	E	X6A3	Yellow Plex	30 ^m	0 ^h 24 ^m	+18°	23 ^h 36 ^m
"	Survey	E-906	E	"	#55	45 ^m	0 ^h 48 ^m	-18°	23 ^h 48 ^m
"	"	O-906	O	X5D3	"	12 ^m	"	"	0 ^h 40 ^m
"	"	E-907	E	X6A3	"	45 ^m	2 ^h 16 ^m	+48°	23 ^h 31 ^m
"	"	O-907	O	X5D3	"	12 ^m	"	"	0 ^h 22 ^m
"	"	E-908	E	X6A3	"	45 ^m	3 ^h 28 ^m	-24°	23 ^h 32 ^m
"	"	O-908	O	X5D3	"	12 ^m	"	"	0 ^h 22 ^m
"	Abell	PS-668	E	X6A3	"	9 ^m	5 ^h 32 ^m 54 ^s	-5°25'0"	23 ^h 11 ^m
"	Survey	E-909	E	"	"	45 ^m	5 ^h 12 ^m	0°	0 ^h 1 ^m
"	"	O-909	O	X5D3	"	12 ^m	"	"	23 ^h 43 ^m
"	Greenstein	PS-669	O	"	"	7 ^s	7 ^h 48 ^m	+66°	22 ^h 16 ^m
"	"	PS-670	E	X6A3	"	27 ^s	"	"	22 ^h 22 ^m
Nov 30/1	Zwicky	PS-671	O	486,773	"	Trail: then slew	18 ^h 35 ^m 20 ^s	+38°44'15"	4 ^h 26 ^m
"	"	PS-672	E	X6A3	"	"	5 ^h 13 ^m 12 ^s	+45°57'9"	18 ^h 41 ^m
"	Survey Check Plate	E-561	E	"	"	45 ^m	0 ^h 0 ^m	+72°	0 ^h 36 ^m
Dec 1/2	No	Observations							

Observing Log
Run No. 51
NOVEMBER--DECEMBER. 1953
(con't)

date	program	plate no.	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Dec 2/3 '53	Baade	B-673	1032-E	X6A3	#55	45 ^m	3 ^h 44 ^m 52 ^s	+23°59'12"	2 ^h 54 ^m
"	"	B-674	1032-O	X5D3		12 ^m	"	"	3 ^h 48 ^m
Dec 3/4	No	Observations							
Dec 4/5	"	"							
Dec 5/6	Survey	E-910	1032-E	X6A3	#55	45 ^m	23 ^h 12 ^m	-12°	0 ^h 13 ^m
"	"	O-910	O	X5D3		12 ^m	"	"	1 ^h 3 ^m
"	Seeing	PS-675	E	X6A3	"	14 ^m	0 ^h 24 ^m	+6°	0 ^h 1 ^m
"	Survey	E-911	E	"	"	45 ^m	2 ^h 48 ^m	-18°	23 ^h 35 ^m
"	"	O-911	O	X5D3		12 ^m	"	"	0 ^h 25 ^m
"	"	E-912	E	X6A3	"	45 ^m	4 ^h 0 ^m	-12°	23 ^h 36 ^m
"	"	O-912	O	X5D3		12 ^m	"	"	0 ^h 26 ^m
"	"	E-913	E	X6A3	"	45 ^m	5 ^h 36 ^m	-18°	23 ^h 11 ^m
"	"	O-913	O	X5D3		12 ^m	"	"	0 ^h 0 ^m
Dec 6/7	"	E-914	E	X6A3	"	45	23 ^h 24 ^m	+30°	0 ^h 43 ^m
"	"	O-914	O	X5D3		12	"	"	0 ^h 54 ^m
"	"	E-915	E	X6A3	"	45	0 ^h 24 ^m	+6°	0 ^h 12 ^m
"	"	O-915	O	X5D3		12	"	"	1 ^h 3 ^m
"	"	E-916	E	X6A3	"	45	1 ^h 36 ^m	-6°	0 ^h 10 ^m
"	"	O-916	O	X5D3		12	"	"	1 ^h 1 ^m
"	"	E-917	E	X6A3	"	45	3 ^h 12 ^m	-12°	23 ^h 43 ^m
"	"	O-917	O	X5D3		12	"	"	0 ^h 33 ^m
"	"	E-918	E	X6A3	"	45	4 ^h 24 ^m	-6°	23 ^h 39 ^m
"	"	O-918	O	X5D3		12	"	"	0 ^h 30 ^m
"	"	E-919	E	X6A3	"	45	5 ^h 36 ^m	+36°	0 ^h 12 ^m
"	"	O-919	O	X5D3		12	"	"	1 ^h 3 ^m
"	"	E-920	E	X6A3	"	45	6 ^h 30 ^m	+30°	0 ^h 28 ^m
"	"	O-920	O	X5D3		12	"	"	1 ^h 18 ^m
"	"	E-921	E	X6A3	"	45	8 ^h 14 ^m	-24°	23 ^h 55 ^m
"	"	O-921	O	X5D3		12	"	"	0 ^h 45 ^m
"	"	E-922	E	X6A3	"	45	9 ^h 12 ^m	-6°	0 ^h 3 ^m
"	"	O-922	O	X5D3		12	"	"	0 ^h 52 ^m
Dec. 7/8	—	No Observations							
Dec. 8/9	—	"							
Dec. 9/10	Survey	O-923	O	X5D3	"	12	6 ^h 24 ^m	+6°	0 ^h 10 ^m
"	"	E-923	E	X6A3	"	45	"	"	23 ^h 20 ^m
"	"	O-924	O	X5D3	"	12	8 ^h 40 ^m	+30°	23 ^h 23 ^m
"	"	E-924	E	X6A3	"	45	"	"	23 ^h 41 ^m

Observing Log

Run No. 51

NOVEMBER--DECEMBER, 1953

(con't)

date	program	plate no.	emulsion type	emulsion no.	filter	exposure time	α	δ	H.A.
Dec. 9/10	Survey	O-925		O X5D3	—	12	9 ^h 20 ^m	+36°	23 ^h 54 ^m
"	"	E-925		E X6A3	55	45	"	"	0 ^h 11 ^m
Dec. 10/11	—	No Observations							
Dec. 11/12	—	"	"	"	"	"	"	"	"
Dec. 12/13	—	"	"	"	"	"	"	"	"
Dec. 13/14	—	"	"	"	"	"	"	"	"
Dec. 14/15	Test	F-17	103a-E	X6A3	55	—	1 ^h 29 ^m	+15°	23 ^h 51 ^m
"	"	F-18	"	"	"	—	2 ^h 10 ^m	+15°	0 ^h 6 ^m
"	"	F-19	"	"	"	—	3 ^h 40 ^m	+17°	0 ^h 0 ^m
"	"	F-20	"	"	"	—	5 ^h 4 ^m	+18°	23 ^h 54 ^m
"	"	F-21	103a-O	X5D3	—	—	5 ^h 42 ^m	+18°	23 ^h 53 ^m
Dec. 15/16	—	No Observations							
Dec. 16/17	—	"	"	"	"	"	"	"	"

NOVEMBER--DECEMBER, 1953

On Hand at beginning of run:

plates	200" vault	200" darkroom	48"	open	ready box	total	Chemicals:	
0449,667	—	64x4	—	—	—	256	D-19 Naccofix Conc. Naccofix Acetic Acid Distilled Water	21 1/2 10 13 3 1/8 1
0458,884	—	—	11x4	—	—	44		
0486,773	27x2	—	3x2	—	—	60		
0X5D3	131x2	—	4x2	—	4	274		
E486,815	—	60x2	—	—	—	120		
E486,826	—	47x2	—	—	—	94		
E486,827	—	41x2	—	—	—	82		
E488,467	—	55x2	—	—	—	110		
E488,520	—	63x2	—	—	—	126		
E489,182	—	30x2	—	—	—	60		
E6YA3	56x2	—	6x2	3	3	127		

date	from: (or)	to:	Description
Nov 27, 1953	200"	48"	10 boxes = 20 plates (X5D3) ; 10 boxes = 20 plates (6YA3)
Nov 30, 1953	48"	200"	1 gal D-19
Dec 2, '53	Caltech	48"	4 gal Nacc-Conc; 8 gal Naccofix; 16 gal D-19
Dec 6, '53	200"	"	10 boxes = 20 plates (X5D3) ; 10 boxes = 20 plates (6YA3)
Dec 8, '53	48"	200"	2 gal. D-19; 1 gal. Hypo. Conc.
Dec. 14, '53	48"	Pasadena	8 gal. Hypo. Conc., 4 gal. D-19 (For Credit)

On Hand at end of run:								
0449,667	—	64x4	—	—	—	256	D-19	32 1/2
0458,884	—	—	9x4	2	—	38	Naccofix Conc	17
0486,773	27x2	—	1x2	—	—	56	Naccofix	24
0X5D3	111x2	—	9x2	—	2	242	Acetic Acid	3
E486,815	—	60x2	—	—	—	120	Distilled Water	5 1/2
E486,826	—	47x2	—	—	—	94		
E486,827	—	41x2	—	—	—	82		
E488,467	—	55x2	—	—	—	110		
E488,520	—	63x2	—	—	—	126		
E489,182	—	30x2	—	—	—	60		
E6YA3	36x2	—	6x2	—	1	85		

NOVEMBER--DECEMBER, 1953

date	Emulsion Type	Emulsion No.	good	break	total	Remarks
Nov 27	1032-E	X6A3	4	-	4	
"	1032-O	486773	3	1	4	
"	"	X5D3	8	-	8	
"	1032-E	X6A3	6	-	6	
Nov 28	"	"	4	-	4	
Nov 29	1032-O	X5D3	2	-	2	
"	"	"	6	-	6	
"	1032-E	X6A3	8	-	8	
"	"	"	2	-	2	
Dec 1	1032-O	X5D3	2	-	2	
"	"	"	3	1	4	
Dec 2	1032-E	X6A3	3	1*	4	* Broken in box
"	"	"	4	-	4	
Dec 6	1032-O	X5D3	4	-	4	
"	"	"	2	-	2	
Dec. 7	1032-E	X6A3	4	-	4	
"	"	"	2	-	2	
Dec. 8	1032-O	X5D3	2	-	2	
"	"	"	2	-	2	
Dec. 14	1032-E	X6A3	2	-	2	

DECEMBER, JANUARY, 1953

date	start	stop	No. of Plates	No. of Survey Pr.	Observer	temp.	wind	sky	seeing
Dec 26/27	E=1815	Mr=2307	8	1	Abell	42°	NW	clear to thin overcast	1-2
27/28	1816	0002	0	0	"	40°	Strong NW	clear	<<1
28/29	1816	0058	6	3	"	40°	W-NW-NE	clear	<1-3
29/30	1817	0154	0	0	"	40°	NE	Bright sky clear	<1
30/31	1817	0254	7	3	"	42°	S.E.	clear	1-3
31/1	1818	0351	9	3	"	48°	calm to NW	clear	4-6!
Jan 1/2	1818	0449	7	3	"	44°	NW	scattered till 10:30 then clear	<1-2
2/3	1819	D=0523	12	6	"	47°	SW (light)	scattered after 2100AM	4-2
3/4	1819	0523	20	10	"				
4/5	1820	0523	18	9	Harrington	45°	N.W.	clear	2
5/6	1820	0523	0	0	"		clouds		
6/7	1855	0524	0	0	"		"		
7/8	2003	0524	0	0	"	32°	" + fog		
8/9	2110	0524	0	0	"	33°	"		
9/10	2216	0524	0	0	"	29°	Gusty N.E.	clear	1-1+
10/11	2323	0524	8	4	"	33°	S.E.	"	2
11/12	0031	0524	0	0	"		Storm (snow)		
12/13	0140	0524			"				
13/14	0248	0524			"				
14/15	0353	0523			"				

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Observing Log

Run No. 52

DECEMBER--JANUARY, 1953

date	program	plate no.	emulsion type	emulsion number	filter	exposure time	α	δ	H. A.
Dec 26, 1953	Focus	F-22	1032-O	X5D3	—	$\frac{1}{2}^m$	$1^h 35^m$	$+11^{\circ} 49'$	$23^h 59^m$
"	"	F-24	1032-E	X6A3	#55	1^m	"	"	$0^h 12^m$
"	"	F-25	1032-O	X5D3	—	$\frac{1}{2}^m$	$2^h 21^m$	$+10^{\circ} 3'$	$23^h 42^m$
"	"	F-26	1032-E	X6A3	"	1^m	"	"	$23^h 54^m$
"	"	F-23	1032-O	X5D3	"	$\frac{1}{2}^m$	$2^h 40^m$	$+10^{\circ} 32'$	$23^h 52^m$
"	"	F-27	1032-E	X6A3	"	1^m	"	"	$0^h 0^m$
"	Survey	E-926	1032-E	"	"	45^m	$2^h 24^m$	-6°	$0^h 41^m$
"	"	O-926	1032-O	X5D3	"	12^m	"	"	$1^h 32^m$
Dec 27/53	No	Observations							
Dec 28/53	Survey	E-927	1032-E	X6A3	"	45^m	$3^h 54^m$	-24°	$23^h 29^m$
"	"	O-927	1032-O	X5D3	"	12^m	"	"	$0^h 19^m$
"	"	E-928	1032-E	X6A3	"	45^m	$6^h 0^m$	-6°	$23^h 44^m$
"	"	O-928	1032-O	X5D3	"	12^m	"	"	$23^h 28^m$
"	"	E-929	1032-E	X6A3	"	45^m	$6^h 48^m$	$+6^{\circ}$	$0^h 3^m$
"	"	O-929	1032-O	X5D3	"	12^m	"	"	$23^h 47^m$
Dec 29/53	No	Observations							
Dec 30/53	Survey	E-930	1032-E	X6A3	"	45^m	$0^h 48^m$	$+18^{\circ}$	$0^h 6^m$
"	"	O-930	1032-O	X5D3	"	12^m	"	"	$1^h 0^m$
"	"	E-931	1032-E	X6A3	"	45^m	$2^h 0^m$	$+42^{\circ}$	$0^h 16^m$
"	"	O-931	1032-O	X5D3	"	12^m	"	"	$1^h 9^m$
"	"	E-932	1032-E	X6A3	"	45^m	$3^h 36^m$	0°	$23^h 57^m$
"	"	O-932	1032-O	X5D3	"	12^m	"	"	$0^h 49^m$
"	Q Test	QE-1	1032-E	X6A3	"	150^m	$7^h 15^m$	$+25^{\circ}$	$22^h 51^m$
Dec 31/53	Focus	F-28	1032-E	"	#56	6^m	$1^h 33^m 5^s$	$+11^{\circ} 24' 22''$	$23^h 37^m$
"	"	F-29	"	"	"	"	"	"	$23^h 52^m$
"	Q Test	QE-2	"	"	"	150^m	$4^h 40^m$	$+25^{\circ} 0'$	$22^h 18^m$
"	Survey	E-933	"	"	"	45^m	$7^h 36^m$	0°	$23^h 56^m$
"	"	O-933	1032-O	X5D3	"	12^m	"	"	$23^h 89^m$
"	"	E-934	1032-E	X6A3	"	45^m	$8^h 48^m$	-6°	$23^h 52^m$
"	"	O-934	1032-O	X5D3	"	12^m	"	"	$23^h 35^m$
"	"	E-935	1032-E	X6A3	"	45^m	$10^h 0^m$	-12°	$23^h 33^m$
"	"	O-935	1032-O	X5D3	"	12^m	"	"	$0^h 21^m$
Jan 1, 1954	MBI	PS-676	1032-O	"	"	"	$9^h 58^m 26^s$	$+69^{\circ} 16' 15''$	$19^h 36^m$
"	Survey	E-936	1032-E	X6A3	"	40^m	$7^h 12^m$	0°	$23^h 17^m$
"	"	O-936	1032-O	X5D3	"	12^m	"	"	$0^h 3^m$
"	"	E-937	1032-E	X6A3	"	40^m	$8^h 0^m$	-12°	$0^h 33^m$
"	"	O-937	1032-O	X5D3	"	12^m	"	"	$1^h 18^m$

DECEMBER--JANUARY, 1953

(con't)

date	program	plate no.	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Jan 1, 1954	Survey	E-938	103a-E	X6A3	#56	40 ^m	9 ^h 12 ^m	-18°	0 ^h 25 ^m
"	"	O-938	103a-O	X5D3	"	12 ^m	"	"	1 ^h 9 ^m
Jan 2, 1954	"	E-939	103a-E	X6A3	"	40 ^m	2 ^h 24 ^m	0°	0 ^h 4 ^m
"	"	O-939	103a-O	X5D3	"	12 ^m	"	"	0 ^h 50 ^m
"	"	E-940	103a-E	X6A3	"	40 ^m	3 ^h 36 ^m	+12°	23 ^h 57 ^m
"	"	O-940	103a-O	X5D3	"	12 ^m	"	"	0 ^h 42 ^m
"	"	E-941	103a-E	X6A3	"	40 ^m	4 ^h 24 ^m	-12°	0 ^h 13 ^m
"	"	O-941	103a-O	X5D3	"	12 ^m	"	"	1 ^h 2 ^m
"	"	E-942	103a-E	X6A3	"	40 ^m	6 ^h 4 ^m	+36°	23 ^h 40 ^m
"	"	O-942	103a-O	X5D3	"	12 ^m	"	"	0 ^h 26 ^m
"	"	E-943	103a-E	X6A3	"	40 ^m	6 ^h 24 ^m	-6°	0 ^h 27 ^m
"	"	O-943	103a-O	X5D3	"	12 ^m	"	"	1 ^h 12 ^m
"	"	E-944	103a-E	X6A3	"	40 ^m	7 ^h 48 ^m	+30°	1 ^h 6 ^m
"	"	O-944	103a-O	X5D3	"	12 ^m	"	"	1 ^h 52 ^m
Jan 3, 1954	"	E-945	103a-E	X6A3	"	40 ^m	1 ^h 16 ^m	+54°	23 ^h 50 ^m
"	"	O-945	103a-O	X5D3	"	12 ^m	"	"	0 ^h 36 ^m
"	"	E-946	103a-E	X6A3	"	40 ^m	2 ^h 0 ^m	-12°	0 ^h 11 ^m
"	"	O-946	103a-O	X5D3	"	12 ^m	"	"	0 ^h 56 ^m
"	"	E-947	103a-E	X6A3	"	40 ^m	3 ^h 12 ^m	-18°	0 ^h 2 ^m
"	"	O-947	103a-O	X5D3	"	12 ^m	"	"	0 ^h 47 ^m
"	"	E-948	103a-E	X6A3	"	40 ^m	4 ^h 20 ^m	-24°	23 ^h 58 ^m
"	"	O-948	103a-O	X5D3	"	12 ^m	"	"	0 ^h 43 ^m
"	"	E-949	103a-E	X6A3	"	40 ^m	5 ^h 12 ^m	-12°	0 ^h 5 ^m
"	"	O-949	103a-O	X5D3	"	12 ^m	"	"	0 ^h 55 ^m
"	"	E-950	103a-E	X6A3	"	40 ^m	6 ^h 24 ^m	0°	0 ^h 0 ^m
"	"	O-950	103a-O	X5D3	"	12 ^m	"	"	0 ^h 45 ^m
"	"	E-951	103a-E	X6A3	"	40 ^m	7 ^h 36 ^m	-6°	23 ^h 52 ^m
"	"	O-951	103a-O	X5D3	"	12 ^m	"	"	0 ^h 37 ^m
"	"	E-952	103a-E	X6A3	"	40 ^m	8 ^h 48 ^m	-12°	0 ^h 24 ^m
"	"	O-952	103a-O	X5D3	"	12 ^m	"	"	1 ^h 8 ^m
"	"	E-953	103a-E	X6A3	"	40 ^m	9 ^h 58 ^m	-24°	0 ^h 16 ^m
"	"	O-953	103a-O	X5D3	"	12 ^m	"	"	1 ^h 0 ^m
"	"	E-954	103a-E	X6A3	"	40 ^m	11 ^h 12 ^m	-18°	0 ^h 3 ^m
"	"	O-954	103a-O	X5D3	"	12 ^m	"	"	0 ^h 46 ^m
Jan 4/5	"	O-955	O	X5D3	"	40 12	1 ^h 44 ^m	-24°	0^h46^m 2 ^h 41 ^m
"	"	E-955	E	X6A3	"	40	"	"	1 ^h 41 ^m
"	"	O-956	O	X5D3	"	12	2 ^h 32 ^m	+54°	0 ^h 39 ^m
"	"	E-956	E	X6A3	"	40	"	"	23 ^h 5 ^m

Observing Log

Run No. 52

DECEMBER--JANUARY. 1953

(con't)

[illegible]

DECEMBER--JANUARY, 1953

On Hand at beginning of run:

plates	200" vault	200" darkroom	48"	open	ready box	total	Chemicals:	
O 449,667	✓	64x4	—	—	—	256	D-19	31 1/2
O 458,884	✓	—	9x4	2	—	38	Naccofix Conc.	17
O 486,773	27x2	—	1x2	—	—	56	Naccofix	24
O X5D3	111x2	—	9x2	—	2	242	Acetic Acid	3+
E 486,815	—	60x2	—	—	—	120	Distilled Water	5 1/2
E 486,826	—	47x2	—	—	—	94		
E 486,827	—	41x2	—	—	—	82		
E 488,467	—	55x2	—	—	—	110		
E 488,520	—	63x2	—	—	—	126		
E 489,182	—	30x2	—	—	—	60		
E X6A	36x2	—	6x2	—	1	85		

date	from (or) to:		Description
12-26-53	48"	200"	2 gal D-19
12-29-53	200"	48"	10x2 = 20 X6A3 ; 10x2 = 20 X5D3 (plates)
1-3-54	"	"	10x2 = 20 X5D3 ; 15x2 = 30 X6A3 "
1-5-54	200"	48"	15x2 = 30 X5D3 ; 11x2 = 22 X6A3
1-9-54	Colfax	48"	8 gal D-19

On Hand at end of run:

O 449,667	—	64x4	—	—	—	256		
O 458,884	—	—	9x4	2	—	38	D-19	815
O 486,773	27x2	—	1x2	—	—	56	Naccofix Conc.	11
O X5D3	76x2	—	19x2	—	5	195	Naccofix	22
E 486,815	—	60x2	—	—	—	120	Acetic Acid	2 3/4
E 486,826	—	47x2	—	—	—	94	Distilled Water	5 1/2
E 486,827	—	41x2	—	—	—	82		
E 488,467	—	55x2	—	—	—	110		
E 488,520	—	63x2	—	—	—	126		
E 489,182	—	30x2	—	—	—	60		
E X6A5	—	—	13x2	—	5	31		

DECEMBER--JANUARY, 1953

date	Emulsion Type	Emulsion Number	good	break	total	Remarks
12/26/53	103a-E	X6A3	4	-	4	
"	103a-O	X5D3	4	-	4	
12/27/53	"	X5D3	4	-	4	
"	103a-E	X6A3	4	-	4	
12/29/53	"	"	4	-	4	
"	103a-O	X5D3	4	-	4	
12/30/53	103a-E	X6A3	2	-	2	
12/31/53	"	"	6	-	6	
"	103a-O	X5D3	6	-	6	
1/1/54	"	"	4	-	4	
"	103a-E	X6A3	6	-	6	
1/2/54	"	"	4	-	4	
"	103a-O	X5D3	4	-	4	
1/3/54	"	"	6	-	6	
"	103a-E	X6A3	6	1*	7	* Broken in box
1-4-54	103a-O	X5D3	9	1*	10	* " "
"	103a-E	X6A3	10	-	10	
1-5-54	"	"	8	-	8	
"	103a-O	X5D3	8	-	8	

JANUARY-- FEBRUARY, 1954

Date	Start	Stop	No of Plates	No of Survey Fr.	Observer	temp.	wind	sky	seeing
Jan 22/23	E= 1835	Mr=2056	4	0	Abell	45	Calm-NW	Clear	2-1
23/24	1835	2152	0	0	"		Gusty-W	Fog & drizzle	
24/25	1836	2246	0	0	"		Storm		
25/26	1837	2343	1	0	"	38	SW-NW	Scattered	<1-2
26/27	1838	0040	2	0	"	43°	NW	Scattered to thin overcast	3-5
27/28	1839	0138	11	5	"	51°	NW (breeze)	clear till 11:00; then clouds	3-4
28/29	1840	0237	0	0	"	55°	Calm	Overcast	
29/30	1840	0334	0	0	"	57	"	"	
30/31	1841	0428	4	2	"	55°	Strong-E	Clear	<1-2
31/1	1842	0517	0	0	"	55°	"	"	<1
Feb 1/2	1843	D =0519	1	0	Harrington	56	" N.E.	"	<1
2/3	1844	0518	1	0	"	55°	Mod. N.E.	Some haze	1
3/4	1845	0518	2	0	"	43°	"	"	<1-1
4/5 Ms=	1855	0517	0	0	"	44°	"	Clouds After 12:00	<1-3
5/6	2004	0516	2	1	"	50°	E.	Thin clouds	2-4
6/7	2114	0516	0	0	"	51°	Strong E.	Clouds	<1-1
7/8	2224	0515	0	0	"	46°	"	Clouds After 1:00	<1
8/9	2333	0514	2	0	"	47°	Mod. E.	Clouds	<1-2
9/10	0043	0513	4	2	"	42°	Gusty W.	Clear	2-1
10/11	0149	0512	6	3	"	40°	—	"	2-3
11/12	0251	0511	2	1	"	41°	W.	"	2-1
				14					

JANUARY -- FEBRUARY, 1954

date	program	plate no.	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Jan 22/23	Focus	F-30	103a-E	X6A3	#56	5x1 ^m	3 ^h 28 ^m 9 ^s	-4°26'36"	0 ^h 5 ^m
"	"	F-31	1032-O	X5D3		7x30 ^s	4 ^h 2 ^m 22 ^s	-2°33'44"	23 ^h 45 ^m
"	Test	T-29	1032-O	"		6x1 ^m	4 ^h 10 ^m 55 ^s	-23°5'15"	23 ^h 55 ^m
"	"	T-30	1032-O	"		5x1 ^m	4 ^h 46 ^m 0 ^s	+31°21'8"	23 ^h 50 ^m
Jan 23/24	No Observations								
Jan 24/25	"								
Jan 25/26	Focus	F-32	103a-E	X6A3	—	5x30 ^s	10 ^h 4 ^m 37 ^s	+6°24'59"	23 ^h 42 ^m
"	"	F-33	"	"	#56	6x1 ^m	2 ^h 47 ^m 43 ^s	-1°40'25"	23 ^h 55 ^m
Jan 26/27	"	F-34	1032-O	X5D3	—	7x30 ^s	"	"	0 ^h 8 ^m
Jan 27/28	Survey	O-968	"	"		12 ^m	2 ^h 56 ^m	+60°	0 ^h 57 ^m
"	"	E-968	103a-E	X6A3	#56	40 ^m	"	"	0 ^h 6 ^m
"	"	O-969	O	X5D3		12 ^m	4 ^h 48 ^m	0°	0 ^h 12 ^m
"	"	E-969	E	X6A3	"	40 ^m	"	"	23 ^h 26 ^m
"	"	O-970	O	X5D3		12 ^m	5 ^h 8 ^m	+36°	0 ^h 55 ^m
"	"	E-970	E	X6A3	"	40 ^m	"	"	0 ^h 10 ^m
"	"	O-971	O	X5D3		12 ^m	6 ^h 58 ^m	+54°	0 ^h 10 ^m
"	"	E-971	E	X6A3	"	40 ^m	"	"	23 ^h 24 ^m
"	"	O-972	O	X5D3		12 ^m	7 ^h 36 ^m	-12°	0 ^h 38 ^m
"	"	E-972	E	X6A3	"	40 ^m	"	"	23 ^h 55 ^m
"	MBI	P5-677	O	X5D3		12 ^m	9 ^h 58 ^m 26 ^s	+69°16'15"	22 ^h 42 ^m
Jan 28/29	No Observations								
Jan 29/30	"								
Jan 30/31	Survey	D-973	O	X5D3		12 ^m	3 ^h 28 ^m	+66°	0 ^h 32 ^m
"	"	E-973	E	X6A3	"	40 ^m	"	"	23 ^h 44 ^m
"	"	O-974	O	X5D3		12 ^m	4 ^h 48 ^m	+6°	0 ^h 21 ^m
"	"	E-974	E	X6A3	"	40 ^m	"	"	23 ^h 35 ^m
Jan 31/1	No Observations								
Feb. 1/2	Zwicky	PS-678	O	X5D3	—	12 min	12 ^h 29 ^m	+12°	22 ^h 1 ^m
Feb. 2/3	Focus	F-35	O	X5D3	—	"			
Feb. 3/4	Test	T-31	103a-E	X1A4	56	4 ^h 40 ^m	+32°	} Emul. test only	
"	"	T-32	"	"	"	5 ^h 14 ^m	+18°		
Feb. 4/5	No Observations								
Feb. 5/6	Survey	O-975	O	X5D3		5 ^h 40 ^m	+72°		23 ^h 22 ^m
"	"	E-975	E	X1A4	56	"	"		23 ^h 42 ^m
Feb. 6/7	—	No Observations							
Feb. 7/8	—	"	"						

Observing Log

Run No 53

(con't)

JANUARY -- FEBRUARY, 1954

date	program	plate no	emulsion type	emulsion number	filter	exposure time	α	δ	H.A.
Feb. 8/9	M-81	PS-679	103a-o	X5D3	—	12	9 ^h 58 ^m	+69°	2 ^h 01 ^m
Feb. 9/10	Survey	O-976	"	"		12	10 ^h 48 ^m	+12	0 ^h 3 ^m
"	"	E-976	103a-E X1A4	X1A4	56	45	"	"	0 ^h 20 ^m
"	"	O-977	103a-o	X5D3		12	11 ^h 16 ^m	+66°	0 ^h 47 ^m
"	"	E-977	E	X1A4	56	45	"	"	1 ^h 10 ^m
Feb. 10/11	"	O-978	O	X5D3		12	12 ^h 08 ^m	-24°	23 ^h 14 ^m
"	"	E-978	E	X6A3	"	40	"	"	23 ^h 30 ^m
"	"	O-979	O	X5D3		12	12 ^h 34 ^m	-24°	23 ^h 49 ^m
"	"	E-979	E	X6A3	"	40	"	"	0 ^h 06 ^m
"	"	O-980	O	X5D3		12	13 ^h 52 ^m	-24°	23 ^h 33 ^m
"	"	E-980	E	X6A3	"	40	"	"	23 ^h 49 ^m
Feb. 11/12	"	O-981	O	X5D3		12	12 ^h 48 ^m	+18°	0 ^h 26 ^m
"	"	E-981	E	X6A3	"	40	"	"	23 ^h 41 ^m

Supply Record

Run No 53

JANUARY -- FEBRUARY, 1954

On Hand at Beginning of Run:

	plates	200" Vault	200" darkroom	48"	open	ready box	total	Chemicals:	
O	449,667	-	64x4	-	-	-	256		
O	458,884	-	-	9x4	2	-	38	D-19	15
O	486,773	27x2	-	1x2	-	-	56	Naccofix conc	11
O	X5D3	76x2	-	19x2	-	5	195	Naccofix	22
E	486,815	-	60x2	-	-	-	120	Acetic Acid	3-
E	486,826	-	47x2	-	-	-	94	water	5 1/2
E	486,827	-	41x2	-	-	-	82		
E	488,467	-	55x2	-	-	-	110		
E	488,520	-	63x2	-	-	-	126		
E	489,182	-	30x2	-	-	-	60		
E	X6A3	-	-	18x2	-	5	31		

	date	from(or) to:	Description
	Jan 25 '54	48" 200"	4-gal D-19; 4-gal Nacco. Conc
	Jan 22	Caltech 48"	32 gal (Atkinsm) D-19
	Feb. 3	200" 48"	5x2 = 10 103a-E X1A4 Plates
	Jan-Feb	Caltech Palmer	520 X1A4 (103a-E) plates

On Hand at end of run:

O	449,667	-	64x4	-	-	-	256		
O	458,884	-	-	9x4	2	-	38	D-19	33
O	486,773	27x2	-	1x2	-	-	56	Naccofix Conc	11
O	X5D3	76x2	-	9x2	-	1	195	Naccofix	21
E	486,815	-	60x2	-	-	-	120	Acetic Acid	3
E	486,826	-	47x2	-	-	-	94	Water	5 1/2
E	486,827	-	41x2	-	-	-	82		
E	488,467	-	55x2	-	-	-	110		
E	488,520	-	63x2	-	-	-	126		
E	489,182	-	30x2	-	-	-	60		
E	X6A3	-	-	3x2	-	6	12		

JANUARY -- FEBRUARY, 1954

date	emulsion type	emulsion number	good	break	broken in box	total	remarks
Jan 23	1032-E	X6A3	2	—	—	2	
"	1033-O	X5D3	2	—	—	2	
"	"	"	4	—	—	4	
Jan 26	1032-E	X6A3	3	1	—	4	
"	"	"	8	1	1	10	
Jan 28	1033-O	X5D3	8	—	—	8	
"	"	"	2	—	—	2	
Jan 31	1032-E	X6A3	3	—	1	4	
"	"	X1A4	6	—	—	6	
Feb. 3	"	X1A4	6	—	—	6	
Feb. 7	1032-O	X5D3	2	—	—	2	
Feb. 11	"	"	2	—	—	2	

Observing Schedule

Run No. 54

FEBRUARY--MARCH, 1954

date	start	stop	No. of Plates	No. of survey	Observer	temp.	wind	sky	seeing
Feb 21/22	E-1900	Mr-2133			Harrington				
22/23	1901	2229			"				
23/24	1901	2327	4	1	"	54°	S.E.	clear	1-2
24/25	1902	0025	10	4	"	47°	Calm.	"	2-3
25/26	1903	0121	10	5	"	56°	N. W.	"	2-3+
26/27	1904	0215	0	0	"	46°	STRONG W.	clouds	
27/28	1904	0305	0	0	"	46°	Mod. E.	clear	Soft 1-4
28/1	1905	0351	4	1	"	45°	N. W.	thin clouds	2-3+
Mar 1/2	1906	0431	0	0	Abell	50°		overcast	2-3?
2/3	1907	D- 0454	14	5	"	46°	SE	clear	2-3
3/4	1908	0453	0	0	"	40°	NW	Wet: partly cloudy	<1
4/5	1908	0451	0	0	"	50°	W	cloudy	3?
5/6	1909	0450	8	4	"	49°	E	clear till 1100 Then scattered	2-4
6/7	Ms-2005	0449	16	8	"	52°	NW breeze	clear	2-3
7/8	2118	0448	0	0	"	56°	W	overcast	-
8/9	2230	0447	0	0	"		W	"	
9/10	2340	0445	0	0	"		W	"	
10/11	0044	0444	0	0	"	~35°	SW-W	storm	
11/12	0141	0443	3	0	"	33°	NW	Wet but clear	<<1
12/13	0230	0442	0	0	"	36°	SE	clear	<<1
13/14	0312	0440	0	0	"	38°	E	clear	<<1
14/15	0348	0439			"				

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Observing Log

Run No. 54
February--March, 1954

date	program	plate #	emulsion type	emulsion #	filter	exposure time	R.A.	dec	H.A.
Feb. 23/24	Focus	F-36	103A-E	X6A3	56				
"	"	F-37	103A-0	X5D3	—				
"	Survey	O-982	"	"	—	12	8 ^h 52 ^m	+54°	23 ^h 35 ^m
"	"	E-982	103A-E	X6A3	56	40	"	"	23 ^h 53 ^m
Feb. 24/25	"	O-983	0	X5D3	"	12	5 ^h 12 ^m	+66°	0 ^h 55 ^m
"	"	E-983	E	X6A3	"	40	"	"	0 ^h 08 ^m
"	"	O-984	0	X5D3	"	12	6 ^h 20 ^m	+54°	0 ^h 52 ^m
"	"	E-984	E	X6A3	"	40	"	"	0 ^h 07 ^m
"	"	O-985	0	X5D3	"	12	7 ^h 36 ^m	+54°	0 ^h 41 ^m
"	"	E-985	E	X6A3	"	40	"	"	23 ^h 55 ^m
"	"	O-986	0	X5D3	"	12	8 ^h 24 ^m	-12°	1 ^h 0 ^m
"	"	E-986	E	X6A3	"	40	"	"	0 ^h 16 ^m
"	M81	PS-679	0	X5D3	"	12			
"	—	F-38	E	X6A3	"Y"(106)	—			
Feb. 25/26	Survey	O-987	0	X5D3	"	12	5 ^h 30 ^m	+30°	0 ^h 40 ^m
"	"	E-987	E	X6A3	56	40	"	"	0^h20^m 23 ^h 59 ^m 23^h35^m
"	"	O-988	0	X5D3	"	12	7 ^h 50 ^m	+40°	0 ^h 20 ^m
"	"	E-988	E	X6A3	"	40	"	"	23 ^h 25 ^m
"	"	O-989	0	X5D3	"	12	9 ^h 56 ^m	+36°	0 ^h 28 ^m
"	"	E-989	E	X6A3	"	40	"	"	23 ^h 43 ^m
"	"	O-990	0	X5D3	"	12	9 ^h 36 ^m	+12°	0 ^h 29 ^m
"	"	E-990	E	X6A3	"	40	"	"	23 ^h 53 ^m
"	"	O-991	0	X5D3	"	12	10 ^h 48 ^m	-6°	0 ^h 29 ^m
"	"	E-991	E	X6A3	"	40	"	"	23 ^h 45 ^m
Feb. 26/27	—	No Observations							
Feb. 27/28	—	"							
Feb. 28/1	Focus	F-39	E	X6A3	—	PH-4	Direct		
"	"	F-40	E	"	—	"	"		
"	Survey	O-992	0	X5D3	"	12	7 ^h 20 ^m	+60°	0 ^h 10 ^m
"	"	E-992	E	X1A4	56	45	"	"	23 ^h 19 ^m
MAR. 1/2	No Observations								
Mar 2/3	Survey	O-993	0	X5D3	56	12	5 ^h 8 ^m	+60°	1 ^h 24 ^m
"	"	E-993	E	X1A4	56	45	"	"	0 ^h 33 ^m
"	"	O-994	0	X5D3	56	12	7 ^h 28 ^m	+36°	0 ^h 16 ^m
"	"	E-994	E	X1A4	56	45	"	"	23 ^h 26 ^m
"	"	O-995	0	X5D3	"	12	8 ^h 24 ^m	-18°	0 ^h 50 ^m
"	"	E-995	E	X1A4	51	45	"	"	0 ^h 0 ^m

Observing Log

Run No. 54
(con't)

FEBRUARY--MARCH, 1954

Date	program	Plate #	emulsion type	emulsion #	filter	exposure time	R.A.	Dec	H.A.
Mar 19	No	Observations							
Mar 11/12	Zwicky	PS-682	1032-0	486,773	-	3 ^h 36 ^s	12 ^h 0 ^m	0°	1 ^h 47 ^m
"	"	PS-683	"	"	-	"	12 ^h 20 ^m	"	1 ^h 37 ^m
"	"	PS-684	"	"	-	"	12 ^h 40 ^m	"	1 ^h 26 ^m
Mar 12/13	No	Observations							

Run No. 54

FEBRUARY--MARCH, 1954

On Hand at beginning of run:

Plates	200" vault	200" darkroom	48"	open	ready box	total	Chemicals	
449,667	—	64x4	—	—	—	256	D-19	33
458,884	—	—	9x4	2	—	38	Conc	11
486,773	27x2	—	1x2	—	—	56	Hypo Dilute	20
X5D3	76x2	—	9x2	—	1	175	Hypo	3
486,815	—	60x2	—	—	—	120	Acetic Acid	5½
486,826	—	47x2	—	—	—	94	water	
486,827	—	41x2	—	—	—	82		
488,467	—	55x2	—	—	—	110		
488,520	—	63x2	—	—	—	126		
489,182	—	30x2	—	—	—	60		
X6A5	—	—	3x2	—	6	12		
X1A4	—	—	—	—	—	504		

date	from (or)	to:	Description
Feb. 24	200"	48"	24x2 = 48 plates 103a-E (X1A4)
"	200"	48"	18x2 = 36 " 103a-O (X5D3)
Mar 2	48	200	1 gal D-19
Mar 3	200"	48"	2x6 = 12 486,773 plates

On Hand at end of Run:

449,667	—	64x4	—	—	—	256	D-19 Conc. Hypo Dilute Hypo Acetic Acid water	16½ 27 18 2½ 5½
458,884	—	—	9x4	—	—	38		
486,773	21x2	—	4x2	—	—	50		
X5D3	58x2	—	5x2	—	12	138		
486,815	—	60x2	—	—	—	120		
486,826	—	47x2	—	—	—	94		
486,827	—	41x2	—	—	—	81		
488,467	—	55x2	—	—	—	110		
488,520	—	63x2	—	—	—	126		
489,182	—	30x2	—	—	—	60		
X6A3	—	—	—	—	—	0		
X1A4	2x213	—	10x2	—	12	458		
X2A4	2x29	—	—	—	—	58		
X3A4	2x29	—	—	—	—	58		

FEBRUARY--MARCH, 1954

Date	Emulsion		good	break	broken		total	remarks
	type	number			in box			
Feb. 23	103a-o	X5D3	4	—	—		4	
Feb. 24	"	"	3	1	—		4	
"	103a-E	X6A3	2	—	—		2	
Feb. 25	"	"	4	—	—		4	
"	103a-o	X5D3	4	—	—		4	
Feb. 26	"	"	6	—	—		6	
"	103a-E	X1A4	6	—	—		6	
Mar 1	"	"	6	—	—		6	
"	103a-o	X5D3	6	—	—		6	
Mar 3	"	"	8	—	—		8	
"	103a-E	X1A4	8	—	—		8	
Mar 6	"	"	3	—	1		4	
"	103a-o	X5D3	4	—	—		4	
"	"	X6775	5	1	—		6	
Mar 9	"	X5D3	8	—	—		8	
"	103a-E	X1A4	8	—	—		8	

Observing schedule
Run No. 55
MARCH, APRIL, 1954

date	start	stop	no of plates	no of survey pr	observer	temp	wind	sky	seeing
Mar 22/23E=	1922	Mr-2119	0	0	Abell	< 30°	S	Storm	-
23/24	1923	2215	0	0	"	< 30°	S or SW	"	
24/25	1924	2311	0	0	"	(outside) ~ 35°	S-SW	"	
25/26	1925	0006	0	0	"		NW	end of storm	
26/27	1926	0057	13	5	"	42°	NW	Clear	1-2
27/28	1927	0143	8	4	"	50°	SW	clear till 12:00 then scattered	3-4
28/29	1928	0224	0	0	"	48°	SW	thin clouds	1-2
29/30	1929	0302	0	0	Harrington		Storm		
30/31	1930	0337	0	0	"		heavy fog		
31/1	1931	D = 0411	4	2	"	33°	Clear after 12:00		3
1/2	1932	0410	12	6	"	42°	SE.	clear	2-3+
2/3	1933	0408	8	4	"	44°	Variable	"	2-3-1
3/4	1934	0406	6	3	"	43°	N.W.	Clouds	1-3
4/5	Ms-2007	0405	0	0	"	44°	N.W.	"	
5/6	2120	0404	0	0	"	40°	Strong W.	"Muddy"	Wet < 1
6/7	2229	0402	2	1	Abell	42°	N.W.	clear after 10:30, but wet	< 1-2
7/8	2332	0401	9	4	"	52°	NW	Clear	2-3
8/9	0026	0400	6	3	"	53°	W	"	2-3
9/10	0111	0359	1	0	"	54°	SW	Thin overcast	4
10/11	0149	0357	4	2	"	53°	SE	Clear	2-3
11/12	0222	0356	2	1	"	54°	SE breeze	"	2
				35					

date	program	plate #	emulsion type	emulsion number	filter	exposure time	R.A.	Dec.	H.A.
Mar 23/25	No Observations								
Mar 23/24	"	"							
Mar 24/25	"	"							
Mar 25/26	Survey	O-1010	1032-D	X5D3	#57	12 ^m	8 ^h 0 ^m	-18°	0 ^h 37 ^m
Mar 26/27	"	E-1010	E	X1A4	#57	45 ^m	"	"	23 ^h 47 ^m
"	"	O-1011	O	X5D3	"	12 ^m	8 ^h 48 ^m	-18°	0 ^h 56 ^m
"	"	E-1011	E	X1A4	"	45 ^m	"	"	0 ^h 6 ^m
"	"	O-1012	O	X5D3	"	12 ^m	10 ^h 48 ^m	-18°	0 ^h 3 ^m
"	"	E-1012	E	X1A4	"	45 ^m	"	"	23 ^h 13 ^m
"	"	O-1013	O	X5D3	"	12 ^m	11 ^h 36 ^m	-18°	0 ^h 23 ^m
"	"	E-1013	E	X1A4	"	45 ^m	"	"	23 ^h 33 ^m
"	"	O-1014	O	X5D3	"	12 ^m	12 ^h 24 ^m	-12°	0 ^h 42 ^m
"	"	E-1014	E	X1A4	"	45 ^m	"	"	23 ^h 52 ^m
"	Polar Axis	T-33	E	"	"	19 ^m	Meridian	Pole	
"	Focus	F-43	O	X5D3	"	3 ^h	15 ^h 48 ^m 39 ^s	-2°56'26"	23 ^h 48 ^m
"	"	F-44	E	X1A4	"	7 ^m	"	"	0 ^h 0 ^m
Mar 27/28	Survey	O-1015	O	X5D3	"	12 ^m	8 ^h 24 ^m	-6°	0 ^h 5 ^m
"	"	E-1015	E	X1A4	"	45 ^m	"	"	23 ^h 15 ^m
"	"	O-1016	O	X5D3	"	12 ^m	9 ^h 12 ^m	-12°	0 ^h 26 ^m
"	"	E-1016	E	X1A4	"	45 ^m	"	"	23 ^h 36 ^m
"	"	O-1017	O	X5D3	"	12 ^m	10 ^h 50 ^m	-24°	23 ^h 58 ^m
"	"	E-1017	E	X1A4	"	45 ^m	"	"	23 ^h 6 ^m
"	"	O-1018	O	X5D3	"	12 ^m	11 ^h 12 ^m	-6°	0 ^h 40 ^m
"	"	E-1018	E	X1A4	"	45 ^m	"	"	23 ^h 50 ^m
Mar 28/29	No Observations								
" 29/30	"	"							
" 30/31	"	"							
Mar 31/APR 1	Survey	O-1019	O	X5D3		13 ^h 36 ^m	+18°		1 ^h 2 ^m
"	"	E-1019	E	X1A4	57	"	"		0 ^h 12 ^m
"	"	O-1020	O	X5D3	"	15 ^h 12 ^m	+12°		0 ^h 34 ^m
"	"	E-1020	E	X1A4	"	"	"		23 ^h 44 ^m
APR 1 1/2	"	O-1021	O	X5D3	"	12	9 ^h 36 ^m	-18°	0 ^h 22 ^m
"	"	E-1021	E	X1A4	"	45	"	"	23 ^h 32 ^m
"	"	O-1022	O	X5D3	"	12	10 ^h 48 ^m	-12°	0 ^h 17 ^m
"	"	E-1022	E	X1A4	"	45	"	"	23 ^h 27 ^m

Observing Log
Run No. 55
MARCH--APRIL, 1954
(con't)

date	program	plate #	emulsion		filter	exposure		R.A.	Dec.	H.A.
			type	number		time				
April 1/2	Survey	0-1023	103a-O	X5D3		12		12h 0m	-6°	0h 14m
"	"	E-1023	103a-E	X1A4	57	45		"	"	23h 24m
"	"	0-1024	O	X5D3		12		13h 36m	-18°	0h 39m
"	"	E-1024	E	X1A4	"	45		"	"	23h 49m
"	"	0-1025	O	X5D3		12		14h 48m	-12°	0h 34m
"	"	E-1025	E	X1A4	"	45		"	"	23h 44m
"	"	0-1026	O	X5D3		12		16h 2m	-24°	0h 28m
"	"	E-1026	E	X1A4	"	45		"	"	23h 39m
April 2/3	"	0-1027	O	X5D3		12		8h 24m	+18°	0h 49m
"	"	E-1027	E	X1A4	"	45		"	"	23h 59m
"	"	0-1028	O	X5D3		12		9h 36m	-12°	0h 46m
"	"	E-1028	E	X1A4	"	45		"	"	23h 56m
"	"	0-1029	O	X5D3		12		11h 12m	-12°	0h 18m
"	"	E-1029	E	X1A4	"	45		"	"	23h 28m
"	"	0-1030	O	X5D3		12		12h 0m	-18°	0h 32m
"	"	E-1030	E	X1A4	"	45		"	"	23h 47m
April 3/4	"	0-1031	O	X5D3		12		8h 48m	+6°	0h 31m
"	"	E-1031	E	X1A4	"	45		"	"	23h 40m
"	"	0-1032	O	X5D3		12		10h 16m	+36°	0h 15m
"	"	E-1032	E	X1A4	"	45		"	"	23h 25m
"	"	0-1033	O	X5D3		12		12h 0m	-12°	0h 24m
"	"	E-1033	E	X1A4	"	45		"	"	23h 34m
April 4/5	No	Observations								
April 5/6	"									
April 6/7	Survey	0-1034	O	X5D3		15 12m 45m		15h 36m	+24°	0h 33m
"	"	E-1034	E	X1A4	"			"	"	23h 43m
Apr 7/8	Polar Axis	T-34	E	X5D3 X1A4	"			Pole at 23h 58m		4A
"	Survey	0-1035	O	X5D3 X1A4	"	12m		12h 24m	-6°	1h 8m
"	"	E-1035	E	X5D3 X1A4	"	45m		"	"	0h 18m
"	"	0-1036	O	X5D3		12m		14h 0m	-12°	0h 39m
"	"	E-1036	E	X1A4	"	45m		"	"	23h 49m
"	"	0-1037	O	X5D3		12m		15h 10m	-24°	0h 36m
"	"	E-1037	E	X1A4	"	45m		"	"	23h 47m
"	"	0-1038	O	X5D3		12m		16h 0m	-12°	0h 51m
"	"	E-1038	E	X1A4	"	45m		"	"	0h 3m
Apr 8/9	"	0-1039	O	X5D3		12m		13h 26m	-24°	1h 13m
"	"	E-1039	E	X1A4	"	45m		"	"	0h 22m

MARCH--APRIL, 1954

(con't)

date	program	plate#	emulsion type	emulsion number	filter	exposure time	R.A.	Dec.	H.A.
Apr 8/9	Survey	01040	103a-0	X5D3		12 ^m	15 ^h 36 ^m	-24°	04 ^h 5 ^m
"	"	E-1040		E X1A4	#57	45 ^m	"	"	23 ^h 20 ^m
"	"	0-1041		O X5D3		12 ^m	16 ^h 24 ^m	-12°	04 ^h 26 ^m
"	"	E-1041		E X1A4	"	45 ^m	"	"	23 ^h 37 ^m
"	"				"	18 ^m 7 ^m 12 ^m 2 ^m 5 ^m 1 ^m 9 ^m 28 ^m 11 ^m 5 ^m	14 ^h 34 ^m	+54°	23 ^h 41 ^m
Apr 9/10	Flysparker	PS-685		E "	"	12 ^m	15 ^h 36 ^m	-18°	0 ^h 19 ^m
Apr 10/11	Survey	0-1042		O X5D3	"	45 ^m	"	"	23 ^h 30 ^m
"	"	E-1042		E X1A4	"	12 ^m	16 ^h 24 ^m	-6°	0 ^h 40 ^m
"	"	0-1043		O X5D3	"	45 ^m	"	"	23 ^h 49 ^m
"	"	E-1043		E X1A4	"	12 ^m	15 ^h 36 ^m	-12°	04 ^h 54 ^m
Apr 11/12	"	0-1044		O X5D3	"	45 ^m	"	"	04 ^h 10 ^m
"	"	E-1044		E X1A4	"				

SUPPLY RECORD

Run No. 55

MARCH--APRIL, 1954

On Hand at Beginning of Run:

Plates	200" vault	48"	open	ready box	total
458,884	-	9x4	-	-	36
486,773	2x2	4x2	-	-	50
X5d3	5Bx2	5x2	-	12	138
X1A4	2x23	10x2	-	12	458
X2A4	2x29	-	-	-	58
X3A4	2x29	-	-	-	58

Chemicals:

D-19	16 1/2
Conc. Hypo	27
Dilute Hypo	18
Acetic Acid	2 1/4
Water	5 1/2

date from (or) to: Description

1-54 200" 48" 24 boxes = 48 Plates 103a-o (X5D3)
 " " " " " 103a-E (X1A4)
 3-26-54 Coltech " 32 gal D-19 ← all bad - black print
 4-8-54 48 200 8 " " ; 4 gal Nacco^{Hyp}; 4 gal Conc. Hypo

On Hand at end of run:

458,884	-	9x4	-	-	36
486,773	2x21	4x2	-	-	50
X5D3	2x29	2x16	-	1	91
X1A4	2x189	2x19	-	1	417
X2A4	2x29	-	-	-	58
X3A4	2x29	-	-	-	58

D-19	19
Conc Hypo	19
Dilute Hypo	14
Acetic Acid	2+
Water	5 1/2

The following plates with defective emulsions are stored in spare darkroom in 200":

emulsion	no.
449,667	256
486,815	120
486,826	94
486,827	81
488,467	110
488,520	126
489,182	60

Run No. 55
MARCH--APRIL, 1954

date	emulsion type	emulsion number	good	break	broken in box	total	remarks
Mar 27	103a-E	X1A4	4	-	-	4	
"	103a-O	X5D3	4	-	-	4	
"	"	"	4	-	-	4	
Mar 28	103a-E	X1A4	4	-	-	4	
"	"	"	2	-	-	2	
April 1	103a-O	X5D3	2	-	-	2	
"	"	"	4	-	-	4	
April 2	103a-E	X1A4	4	-	-	4	
"	"	"	4	-	-	4	
April 3	103a-O	X5D3	4	-	-	4	
"	"	"	2	-	-	2	
Apr 6	103a-E	X1A4	4	-	-	4	
"	103a-O	X5D3	2	-	-	2	
Apr 7	"	"	4	-	-	4	
Apr 8	103a-E	X1A4	4	-	-	4	
"	"	"	2	-	-	2	
Apr 9	"	"	2	-	-	2	
Apr 10	"	"	2	-	-	2	

Observing Schedule
Run No: 56
APRIL--MAY, 1954

date	start	stop	no. of plates	no. of survey pr.	observer	temp.	wind	sky	seeing
Apr 20/21	E=1950	Mr=2106	6	1	Abell	63	NW	clear	2-1
21/22	1951	2200	5	1	"	63	"	"	2-4
22/23	1952	2251	9	2	"	58	SE	"	2-4
23/24	1953	2337	0	0	"	54	SE	scattered clouds	1
24/25	1955	0021	0	0	"	37 (outside)	NE(?)	fog & overcast	
25/26	1956	0059	0	0	"	39 (")	SW(?)	"	
26/27	1957	0134	0	0	"	45 (")	NW	Fog	
27/28	1958	0206	0	0	"		SW	Storm	
28/29	1959	0239	0	0				"	
29/30	2000	0313	0	0	Harrington			fog	
30/1	2001	D= 0329	0	0	"			"	
May 1/2	2002	0327	0	0	"			Clear?	Soft 1-2
2/3	2003	0326	0	0	"			" ?	1-2
3/4	Ms=2007	0324	10	5	"	50°	N.W.-S.E.	clear	2-3
4/5	2114	0323	1	0	"	52°	N.W.	" ?	1-2-1
5/6	2214	0321	6	3	"	53°	"	"	2
6/7	2304	0320	2	1	"	55°	"	"	2-2-1
7/8	2346	0318	3	0	Abell	68°	SW	thin clouds	2
8/9	0022	0317	6	3	"	55°	NW	clear	2-1
9/10	0052	0316	0	0	"			Wet; clear	<< 1
10/11	0120	0314		16					
11/12	0147	0313							
12/13	0213	0311							

Run No 56
APRIL--MAY, 1954

date	program	plate #	emulsion type	emulsion number	filter	exposure time	R. A.	Dec.	H.A.
Apr 20/21	Comet	PS 686	1032-0	X5D3		12 ^m	5 ^h 20 ^m 41 ^s	+69°3'45"	4 ^h 35 ^m
"	Survey	D-1045	O	"		"	10 ^h 24 ^m	-18°	0 ^h 36 ^m
"	"	E-1045	E	X1A4	#57	45 ^m	"	"	23 ^h 46 ^m
"	Focus	F-45	E	"	"	7 ^m	11 ^h 51 ^m 16 ^s	+0°44'48"	23 ^h 34 ^m
"	"	F-46	O	X5D3		3 1/2 ^m	"	"	23 ^h 49 ^m
"	"	F-47	E	X1A4	#58	7 ^m	12 ^h 17 ^m 20 ^s	-0°23'20"	23 ^h 43 ^m
Apr 21/22	Comet	PS-687	O	X2D4		8 ^m	5 ^h 30 ^m	+63°20'	4 ^h 23 ^m
"	Survey	O-1046	O	X5D3		12 ^m	11 ^h 12 ^m	0°	23 ^h 55 ^m
"	"	E-1046	E	X1A4	#57	45 ^m	"	"	0 ^h 11 ^m
"	Test	T-35	O	X2D4		4 ^m	14 ^h 13 ^m 33 ^s	+20°25'16"	22 ^h 27 ^m
"	"	T-36	O	X2D4		4 ^m	"	"	22 ^h 49 ^m
Apr 22/23	Survey	O-1047	O	X5D3		12 ^m	10 ^h 24 ^m	-18°	0 ^h 20 ^m
"	"	E-1047	E	X1A4	"	45 ^m	"	"	23 ^h 29 ^m
"	PS M81	PS-688	O	X5D3		12 ^m	9 ^h 58 ^m 26 ^s	+69°16'15"	1 ^h 49 ^m
"	" NGC4486	PS-689	O	"		12 ^m	12 ^h 29 ^m 7 ^s	+122°4'12"	22 ^h 59 ^m
"	" NGC451	PS-690	O	"		12 ^m	12 ^h 41 ^m 12 ^s	+16°40'0"	23 ^h 8 ^m
"	Survey	O-1048	O	"		12 ^m	12 ^h 48 ^m	-18°	23 ^h 15 ^m
"	"	E-1048	E	X1A4	"	45 ^m	"	"	23 ^h 31 ^m
"	Focus	F-48	E	"	#60	7 ^m	13 ^h 52 ^m 7 ^s	-1°15'20"	23 ^h 30 ^m
"	"	F-49	E	"	#59	7 ^m	"	"	23 ^h 52 ^m
Apr 23/24	No	Observations							
Apr 24/25	"	"							
Apr 25/26	"	"							
Apr 26/27	"	"							
Apr 27/28	"	"							
Apr 28/29	"	"							
Apr 29/30	"	"							
Apr 30	"	"							
May 1	"	"							
May 1/2	"	"							
" 2/3	"	"							
" 3/4	Survey	O-1049	O	X5D3		12	11 ^h 42 ^m	+30°	0 ^h 6 ^m
"	"	E-1049	E	X1A4	59	45	"	"	23 ^h 16 ^m
"	"	O-1050	O	X5D3		12	12 ^h 28 ^m	+48°	0 ^h 32 ^m
"	"	E-1050	E	X1A4	"	45	"	"	23 ^h 40 ^m
"	"	O-1051	O	X5D3		12	14 ^h 0 ^m	+12°	0 ^h 10 ^m
"	"	E-1051	E	X1A4	"	45	"	"	23 ^h 20 ^m

Run No. 56
(con't)
APRIL--MAY, 1954

date	program	plate #	emulsion type	emulsion number	filter	exposure time	R. A.	Dec.	H. A.
May 3/4	Survey	0-1052	103a-O	X5D3		12	15 ^h 30 ^m	+42°	0 ^h 52 ^m
"	"	E-1052	103a-E	X1A4	59	45	"	"	0 ^h 06 ^m
"	"	0-1053	O	X5D3		12	17 ^h 12 ^m	+18°	0 ^h 21 ^m
"	"	E-1053	E	X1A4	"	45	"	"	23 ^h 32 ^m
May 4/5	Humason	PS-691	103a-D		Y-2	30	14 ^h 48 ^m	+25°45'50"	23 ^h 05 ^m
" 5/6	Survey	0-1054	O	X5D3		12	13 ^h 12 ^m	-6°	0 ^h 57 ^m
"	"	E-1054	E	X1A4	59	45	"	"	0 ^h 06 ^m
"	"	0-1055	O	X5D3		12	14 ^h 24 ^m	0°	0 ^h 54 ^m
"	"	E-1055	E	X1A4	"	45	"	"	0 ^h 04 ^m
"	"	0-1056	O	X5D3		12	16 ^h 48 ^m	+6°	0 ^h 19 ^m
"	"	E-1056	E	X1A4	"	45	"	"	23 ^h 30 ^m
May 6/7	"	0-1057	O	X5D3		12	14 ^h 00 ^m	-18°	0 ^h 00 ^m
"	"	E-1057	E	X1A4	"	45	"	"	0 ^h 15 ^m
May 7/8	Comet	PS-692	O	X2D4		5 ^m	6 ^h 45 ^m 8	+56°2'	4 ^h 20 ^m
"	"	PS-693	O	"		"	"	"	4^h44^m 20 ^h 18 ^m
"	Supernova	PS-694	O	"		3 ^m	14 ^h 36 ^m 0	+2°15'	23 ^h 31 ^m
May 8/9	Survey	0-1058	O	X5D3		12 ^m	15 ^h 36 ^m	-6°	0 ^h 33 ^m
"	Survey	E-1058	E	X1A4	"	45 ^m	"	"	23 ^h 43 ^m
"	"	0-1059	O	X5D3		12 ^m	16 ^h 24 ^m	-18°	0 ^h 52 ^m
"	"	E-1059	E	X1A4	"	45 ^m	"	"	0 ^h 02 ^m
"	"	0-1060	O	X5D3		12 ^m	18 ^h 00 ^m	-18°	23 ^h 35 ^m
"	"	E-1060	E	X1A4	"	45 ^m	"	"	23 ^h 51 ^m
May 9/10	No	Observations							

APRIL--MAY, 1954

On hand at beginning of run:

plates	200" vault	48"	open	ready box	total
458,884	-	9x4	-	-	36
486,773	2x21	2x4	-	-	50
X5D3	2x29	2x16	-	1	91
X1A4	2x189	2x19	-	1	417
X2A4	2x29	-	-	-	58
X3A4	2x29	-	-	-	58

Chemicals	
D-19	58 1/2
Conc Hypo	19
Dilute Hypo	14
Acetic Acid	2+
Water	5+

date	from (or) to:	Description
4/16/54	Caltech 48"	40 gal D-19
4/28/54	48" 200"	1 gal D-19
4/29/54	" Caltech	16 gal D-19 (with ppt) for exchange
5/5/54	" 18"	1 gal D-19
4/16/54	Caltech 200"	39 doz 103a-0 (X2D4) plates. (2x234)

On hand at end of run:

458,884	-	9x4	-	-	36
486,773	2x21	2x4	-	-	50
X5D3	2x29	2x5	-	2	70
X1A4	2x189	2x6	-	3	393
X2A4	2x29	-	-	-	58
X3A4	2x29	-	-	-	58

D-19	29
Conc Hypo	15
Dilute Hypo	13
Acetic Acid	2+
Water	5+

See Supply Record for Run No. 55 for defective plates in storage in spare 200" darkroom.

Plate Testing Record

Run No: 56

APRIL--MAY, 1954

date	emulsion type	emulsion number	good	break	broken in box	total	remarks
Apr 20	103a-E	X1A4	4	—	—	4	
"	103a-O	X5D3	4	—	—	4	
"	"	"	2	—	—	2	
"	103a-E	X1A4	2	—	—	2	
Apr 21	103a-O	X2D4	4	—	—	4	
"	"	"	2	—	—	2	
"	"	X5D3	2	—	—	2	
"	103a-E	X1A4	4	—	—	4	
"	"	"	4	—	—	4	
Apr 22	103a-O	X5D3	6	—	—	6	
May 3	103a-E	X1A4	1	—	—	1	
" 4	"	"	5	—	—	5	
" "	103a-O	X5D3	4	—	—	4	
" 6	103a-E	X1A4	2	—	—	2	
" "	"	"	4	—	—	4	
May 7	103a-O	X5D3	4	—	—	4	

Observing schedule

Run No 57

MAY--JUNE, 1954

date	start	stop	no of plates	no of survey	observer pr	temp	wind	sky	seeing
May	20/21E-2021	Mr-2136	2	0	Abell	70°	SW	Scattered	2
	21/22	2021	0	0	"	56°	NW	slightly cloudy	<1
	22/23	2022	7	2	"	61°	NW	clear	2
	23/24	2023	6	3	"	62°	"	"	3-2
	24/25	2024	5	2	"	60°	SW	"	2-3
	25/26	2025	4	1	"	54°	W	"	<1-2
	26/27	2026	2	1	"	60°	NW	"	<1-2
	27/28	2027	9	4	"	62°	NW	"	2-3
	28/29	2028	10	3	"	60°	SE	clear till 1:30 then thin clds	4-8
	29/30	2029 D= 0300	0	0	"		SW	thin clouds possible	<1
	30/31	2030	10	2	"	56°	W	thin clouds	1-3
	31/1	2031	8	2	"	60°	NW	clear until 2300 then thin overcast	3-1
Jun	1/2	2032	11	5	"	61°	NW	clear	3-1
	2/3Ms-2052	0258	8	4	Harrington	56	S.W.	"	2-3+
	3/4	2139	0	0	"		Heavy overcast		
	4/5	2219	0	0	"		" fog		
	5/6	2252	0	0	"		"	"	
	6/7	2321	2	1	"	43°	N.W.	clouds until 12:30	2-3
	7/8	2349	0	0	"	44°	"	clear?	<1-1
	8/9	0015	0	0	"		S.W. Very strong fog		
	9/10	0042	0	0	"		"	"	
	10/11	0110	4	0	"	46°	calm	clear	1
				30					

Observing Log
Run No. 57
MAY--JUNE, 1954

date	program	plate no.	emulsion		filter	exp. time	R.A.	Dec.	H.A.
			type	number					
May 20/21	Focus	F-50	103A-O	X5D3		7X $\frac{1}{2}$ "	12-53-52	-0-40-59	23-46
"	"	F-51	E	X1A4	#59	7X1"	13-13-51	-1-7-35	23-40
May 21/22	No Observations								
May 22/23	MB1	PS-695	O	X5D3		12"	9-58-26	+69-16-15	24-32
"	Survey	O-1061	O	X2D4		15"	13 $\frac{1}{2}$ "	-12°	0-23
"	"	E-1061	E	X1A4	"	45"	"	"	23-32
"	"	O-1062	O	X2D4	"	15"	14 $\frac{1}{2}$ 24"	-6°	23-35
"	"	E-1062	E	X1A4	"	45"	"	"	23-54
"	Focus	F-52	O	X5D3		35 15 "	15-33-59	-0-23-49	23-42
"	"	F-53	E	X1A4	"	7"	"	"	23-53
May 23/24	Survey	O-1063	O	X2D4		15"	12-24	-12°	0-45
"	"	E-1063	E	X1A4	"	45"	"	"	23-55
"	"	O-1064	O	X2D4	"	15"	14-18	-24	0-03
"	"	E-1064	E	X1A4	"	45"	"	"	23-13
"	"	O-1065	O	X2D4	"	15"	15-36	-18	23-6
"	"	E-1065	E	X1A4	"	45"	"	"	23-25
May 24/25	"	O-1066	O	X2D4		15"	12 $\frac{1}{2}$ 24"	-6	0-53
"	"	E-1066	E	X1A4	"	45"	"	"	0-2
"	Exposure	QO-1	O	X2D4		10 ^m 13 ^m 16 ^m 19 ^m	13 $\frac{1}{2}$ 6 $\frac{1}{2}$ 78 ^s	+29-37	0-58
"	Survey	O-1067	O	"		15"	16-0	+6	23-21
"	"	E-1067	E	X1A4	"	45"	"	"	23-41
May 25/26	SA57	PS-696	E	"	"	45"	13-4-33	+29-29-25	00-05
"	"	PS-697	E	"	"	45"	"	"	01-00
"	Survey	O-1068	O	X2D4		15"	16 $\frac{1}{2}$ 26"	+48°	22-41
"	"	E-1068	E	X1A4	"	45"	"	"	23-01
May 26/27	"	O-1069	O	X2D4		15"	16 $\frac{1}{2}$ 48"	+36°	0-20
"	"	E-1069	E	X1A4	"	45"	"	"	23-20
May 27/28	"	O-1070	O	X2D4		15"	13 $\frac{1}{2}$ 0"	+30°	0-32
"	"	E-1070	E	X1A4	"	45"	"	"	23-41
"	SA57	PS-698	E	"	"	"	"	"	0-53
"	Survey	O-1071	O	X2D4		15"	15 $\frac{1}{2}$ 36"	-12°	23-7
"	"	E-1071	E	X1A4	"	45"	"	"	23-27
"	"	O-1072	O	X2D4		15"	16 $\frac{1}{2}$ 48"	-18°	23-5
"	"	E-1072	E	X1A4	"	45"	"	"	23-25
"	"	O-1073	O	X2D4		15"	18 $\frac{1}{2}$ 0"	-18°	23-3
"	"	E-1073	E	X1A4	"	45"	"	"	23-23

Observing Log
Run No. 57
(con't)
MAY--JUNE, 1954

date	program	plate number	emulsion		filter	exposure time	R.A.	Dec.	H.A.
			type	number					
May 28/29	Focus ^{PH-2}	F-54	1032-0	X5D3	-	1/2 x 7	12 ^h 41 ^m 3 ^s	-1°18'8"	23-51
"	Survey	O-1074	" 0	X2D4		15 ^m	13 ^h 0 ^m	+36°	0-41
"	"	E-1074	E	X1A4	#59	50 ^m	"	"	23-45
"	Focus ^{PH-2}	F-55	0	X5D3		9 x 1/2 ^m	14 ^h 27 ^m 17 ^s	+1°3'2"	23-40
"	Survey	O-1075	0	X2D4		13 ^m	14 ^h 24 ^m	-18°	0-46
"	"	E-1075	E	X1A4	"	45 ^m	"	"	23-57
"	Test	T-37	0	X5D3		1 ^m 30 ^s	15 ^h 41 ^m 24 ^s	+29°51'21"	23-54
"	Survey	O-1076	0	X2D4		13 ^m	18 ^h 0 ^m	-18°	22-57
"	"	E-1076	E	X1A4	"	45 ^m	"	"	23-14
"	Focus ^{PH-2}	F-56	0	X2D4		7 x 1/2 ^m	18 ^h 47 ^m 4 ^s	+0°46'46"	23-47
May 29/30	No Observations								
May 30/31	Focus	F-57	E	X1A4	"	7 x 1 ^m	13-14-10	+19-9-59	23-38
"	Survey	O-1077	0	X2D4		13 ^m	13-12	-6	0-45
"	"	E-1077	E	X1A4	"	45 ^m	"	"	23-54
"	Focus	F-58	0	X5D3		7 x 1/2 ^m	15-44-54	+1-41-59	23-49
"	Survey	O-1078	0	X2D4		13 ^m	15-36	-6	0-57
"	"	E-1078	E	X1A4	"	45 ^m	"	"	0-7
"	Focus	F-59	E	"	"	7 x 1 ^m	18-30-42	-5-57-0	23-43
"	"	F-60	0	X5D3		7 x 1/2 ^m	"	"	23-57
"	"	F-61	E	X1A4	"	7 x 1 ^m	19-1-33	+21-41-33	23-39
"	"	F-62	0	X5D3		7 x 1/2 ^m	"	"	23-55
May 31/Jun 1	(W.112) Supernovae?	PS-699	E	X1A4	"	10 ^m	12-10-2	+36-12-26	0-52
"	Survey	O-1079	0	X2D4		13 ^m	13 ^h 36 ^m	+12 ^s	23-38
"	"	E-1079	E	X1A4	"	45 ^m	"	"	23-56
"	(Zwicky) Coma Cluster	PS-700	0	X5D3		12 ^m	12-57-10	+28-18-5	1-30
"	Survey	O-1080	0	X2D4		13 ^m	14 ^h 24 ^m	0°	1-7
"	"	E-1080	E	X1A4	"	45 ^m	"	"	0-17
"	(W.112) Supernovae (Miller)	PS-701	0	X5D3		12 ^m	12-10-2	+36-2-26	3-50
"	NCC 7293	PS-702	E	X1A4 (no filter)		8 ^m	22-21-43	-21-46-20	20-43
Jun 1/2	SA57	PS-703	E	X1A4	#59	45 ^m	13 ^h 0 ^m	+30°	23-53
"	Survey	O-1081	0	X2D4		13 ^m	14 ^h 44 ^m	-24°	23-17
"	"	E-1081	E	X1A4	"	45 ^m	"	"	22-59
"	"	O-1082	0	X2D4		13 ^m	15 ^h 36 ^m	+6°	23-15
"	"	E-1082	E	X1A4	"	45 ^m	"	"	23-33
"	"	O-1083	0	X2D4		13 ^m	16 ^h 48 ^m	-6°	23-13
"	"	E-1083	E	X1A4	"	45 ^m	"	"	23-31
"	"	O-1084	0	X2D4		13 ^m	18 ^h 24 ^m	0°	23-13
"	"	E-1084	E	X1A4	"	45 ^m	"	"	23-33

Observing Log
Run No: 57
(cont)
MAY--JUNE, 1954

date	program	plate no.	type	emulsion number	filter	exp. time	R.A.	Dec.	H.A.
Jun 1/2	Survey	O-1085	103a-0	X2D4		13 ^m	18 ^h 48 ^m	-6°	23-59
"	"	E-1085	E	X1A4	#59	45 ^m	"	"	0-16
June 2/3	"	O-1086	O	X2D4		15	13 ^h 12 ^m	+12°	1 ^h 33
"	"	E-1086	E	X1A4	"	50	"	"	0 ^h 35
"	"	O-1087	O	X2D4		15	14 ^h 48 ^m	+12°	0-18
"	"	E-1087	E	X1A4	"	50	"	"	1-13
"	"	O-1088	O	X2D4		15	16 ^h 24 ^m	+12°	0-53
"	"	E-1088	E	X1A4	"	50	"	"	23-58
"	"	O-1089	O	X2D4		15	18 ^h 12 ^m	+24°	1-02
"	"	E-1089	E	X1A4	"	50	"	"	0-08
June 3/4	No Observations								
" 4/5	"	"	"	"	"	"	"	"	"
" 5/6	"	"	"	"	"	"	"	"	"
" 6/7	Survey	O-1090	O	X2D4		15	19 ^h 04 ^m	+66°	23-39
"	"	E-1090	E	X1A4	"	50	19^h04^m	"	22-43
June 7/8	No Observations								
" 8/9	"	"	"	"	"	"	"	"	"
" 9/10	"	"	"	"	"	"	"	"	"
" 10/11	NGC. 5668	PS-704	O	X2D4		2	14 ^h 36 ^m	+2°15'	23 ^h 56
"	"	PS-705	E	X1A4		8	"	"	23-44
"	NGC. 4214	PS-706	O	X2D4		3	12 ^h 12 ^m 56 ^s	+36°35'58"	1-57
"	"	PS-707	E	X1A4		12	"	"	1-40

Supply Record

Run No. 57

MAY--JUNE, 1954

On Hand at Beginning of Run:

plates	200" vault	48"	open	ready box	total
458,884	—	9x4	—	—	36
486,773	2x21	2x4	—	—	50
X5D3	2x29	2x5	—	2	70
X2D4	2x230	2x1	—	2	462
X1A4	2x189	2x6	—	3	393
X2A4	2x29	—	—	—	58
X3A4	2x29	—	—	—	58

Chemicals:

D-19	29
Conc. Hypo	15
Dilute Hypo	13
Acetic Acid	2+
water	5

Date	From (or) to:	Description
May 20	200	48" 2x10=20 X2D4
" 25	"	" 2x10=20 X1A4
" 29	"	" 2x10=20 X1A4; 2x20=40 X2D4; 2x10=20 X5D3

On Hand at end of run:

458,884		9x4	1	—	37
486,773	2x21	2x4	—	—	50
X5D3	2x19	2x10	—	1	59
X2D4	2x210	2x13	—	1	447
X1A4	2x169	4x2	—	1	347
X2A4	2x29	—	—	—	58
X3A4	2x29	—	—	—	58

D-19	12
Hypo(c)	9
Hypo(d)	12
Acid	2
water	5

See supply record for Run No 55 for defective plates in storage
in spare 200" darkroom.

Plate Testing Record

Run No. 57

MAY--JUNE, 1954

date	emulation type	number	good	break	broken in box	total	remarks
5/20/54	1033-2	X1A4	2	-	-	2	
"	1032-0	X5D3	2	-	-	2	
5/21	"	X2D4	2	-	-	2	
5/22	"	"	2	-	-	2	
"	1032-E	X1A4	2	-	-	2	
5/23	"	"	2	-	-	2	
"	1032-0	X5D3	2	-	-	2	
"	"	X2D4	2	-	-	2	
5/24	"	"	4	-	-	4	
"	1032-E	X1A4	4	-	-	4	
5/25	"	"	2	-	-	2	
"	1032-0	X2D4	4	-	-	4	
5/26	1032-E	X1A4	4	-	-	4	
5/27	"	"	2	-	-	2	
"	1032-0	X2D4	2	-	-	2	
5/28	"	"	4	-	-	4	
"	1032-E	X1A4	4	-	-	4	
5/29	"	"	4	-	-	4	
"	1032-0	X5D3	4	-	-	4	
"	"	X2D4	4	-	-	4	
5/31	"	"	2	-	-	2	
"	"	X5D3	2	-	-	2	
"	1032-E	X1A4	6	-	-	6	
6/1	"	"	4	-	-	4	
"	1032-0	X2D4	2	-	-	2	
6-2	"	"	6	-	-	6	
"	1032-E	X1A4	6	-	-	6	
6-10	"	"	2	-	-	2	
"	1032-0	X2D4	2	-	-	2	

Observing Schedule

Run No 58

JUNE--JULY, 1954

date	start	stop	no of plates	no of survey pr	observer	temp	wind	sky	seeing
Jun 21/22	E=2043	Mr=2239	4	0	Harrington	67°	S.W.	clear	2-1
22/23	2044	2311	0	0	"	74°	W.	clouds	
23/24	2044	2343	2	1	"	68°	S.E.	stopped by clouds	2
24/25	2044	0018	1	0	"	65°	S.E.	clouds	<1
25/26	2044	0058	1	0	"	61°	S.	"	1-41
26/27	2043	0144	8	4	"	51°	S.	clear	2-
27/28	2043	0237	8	4	"	51°	S.W.	"	2-3+
28/29	2043	D =0257	8	4	"	52°	N.W.	"	2-3+
29/30	2043	0257	11	5	Abell	68°	SE	"	2-3
30/1	2042	0258	11	5	"	70°	SE	"	2-3
Jul 1/2	2042	0258	10	5	"	69°	SE	"	3-4
2/3	MS=2048	0259	10	5	"	73°	SE	"	3-4
3/4	2121	0300	6	3	"	70°	SE	overcast until 11:00; then clear	1-3
4/5	2149	0301	8	4	"	70°	SE	clear	3-5
5/6	2216	0302	8	4	"	70°	NW	"	2-3
6/7	2243	0303	0	0	"	72°	NW	Scattered clouds	<1-1
7/8	2311	0304	6	3	"	71°	NW strong	clear	2-3
8/9	2343	0304	8	3	"	69°	NW	"	2-4
9/10	0014	0305	5	2	"	70°	calm	"	3-4
10/11	0052	0306	0 *	0 *	"	74°	"	"	3-4
11/12	0136	0306	0	0	"	73°	SE	Scattered	3?
				52					

* One and one half survey pairs taken when it was discovered that dust cap had not been removed. then too late to take more plates - (sob) -

Observing Log
Run No 58
JUNE--JULY, 1954

date	program	plate no.	emulsion type	number	filter	exposure	R.A.	Dec.	H.A.
June 21/22	Test	F-63		O X5D3					
		F-64		E X1A4	#61				
		F-65		O X5D3					
		F-66		E X1A4	#61				
June 22/23	No Observations								
" 23/24	Survey	O-1091		O X2D4		11-	15 ^h 10 ^m	+30°	0 ^h 40
"	"	E-1091		E X1A4	61	50	+32°	"	23-45
June 24/25	Comet	PS-708		O X5D3	—	10	15 ^h 12 ^m	+32°	0-0
" 25/26	"	PS-709		O "		"	"	"	1-1
" 26/27	Survey	O-1092		O X2D4		13	15 ^h 10 ^m	+30	0-27
"	"	E-1092		E X1A4	61	50	"	"	23-52
"	"	O-1093		O X2D4		13	16 ^h 20 ^m	+36	0-55
"	"	E-1093		E X1A4	61	50	"	"	23-58
"	"	O-1094		O X2D4		13	17 ^h 36 ^m	+60	0-57
"	"	E-1094		E X1A4	61	50	"	"	0-08
"	"	O-1095		O X2D4		13	20 ^h 02 ^m	+42	23-47
"	"	E-1095		E X1A4	61	50	"	"	22-52
June 27/28	"	O-1096		O X2D4		13	15 ^h 12 ^m	+54	1-10
"	"	E-1096		E X1A4	"	50	"	"	0-14
"	"	O-1097		O X2D4		13	16 ^h 28 ^m	+30	1-08
"	"	E-1097		E X1A4	"	50	"	"	0-13
"	"	O-1098		O X2D4		13	17 ^h 36 ^m	-12	1-12
"	"	E-1098		E X1A4	"	50	"	"	0-17
"	"	O-1099		O X2D4		13	20 ^h 24	+48	0-19
"	"	E-1099		E X1A4	"	50	"	"	23-24
"	Comet	PS-710		O X5D3	—	5	15 ^h 12 ^m	+32	
June 28/29	Survey	O-1100		O X2D4		13	16 ^h 08 ^m	+60	0-5
"	"	E-1100		E X1A4	"	50	"	"	23-10
"	"	O-1101		O X2D4		13	16 ^h 28 ^m	+54	1-0
"	"	E-1101		E X1A4	"	50	"	"	0-5
"	"	O-1102		O X2D4		13	17 ^h 44 ^m	+54	0-58
"	"	E-1102		E X1A4	"	50	"	"	0-3
"	"	O-1103		O X2D4		13	20 ^h 48 ^m	+24	23-53
"	"	E-1103		E X1A4	"	50	"	"	22-59
June 29/30	Comet 1953g	PS 711		E "		2	9 ^h 27 ^m 6	+12°46'	5 ^h 29 ^m
"	Survey	O-1104		O X2D4		13	15 ^h 12 ^m	-12°	1 ^h 0 ^m
"	"	E-1104		E X1A4	"	50	"	"	0 ^h 4 ^m

Observing Log

Run No. 58
(cont)

JUNE--JULY, 1954

date	program	plate no.	emulsion type	number	filter	exp- posure	R.A.	Dec.	H.A.
Jun 29/30	Survey	O-1105	103a-	O X2D4		13 ^m	16 ^h 28 ^m	-24°	0-53
"	"	E-1105	E	X1A4	#61	50	"	"	0-3
"	"	O-1106	O	Y2D4		13	18 ^h 0 ^m	-18°	0-38
"	"	E-1106	E	X1A4	"	50	"	"	23-43
"	"	O-1107	O	X2D4		13	19 ^h 56 ^m	-24°	23-34
"	"	E-1107	E	X1A4	"	50	"	"	23-51
"	"	O-1108	O	X2D4		13	21 ^h 14 ^m	-24°	23-29
"	"	E-1108	E	X1A4	"	50	"	"	23-45
Jun 30/1	Comet 1953g	PS 712	E	"	-	4	9 ^h 29 ^m 48 ^s	+11°47'	5-51
"	Survey	O-1109	O	X2D4		12	16 ^h 24 ^m	-18°	23-56
"	"	E-1109	E	X1A4	"	50	"	"	23-2
"	"	O-1110	O	X2D4		12	17 ^h 12 ^m	-18°	0-20
"	"	E-1110	E	X1A4	"	50	"	"	23-26
"	"	O-1111	O	X2D4		12	18 ^h 48 ^m	-18°	23-59
"	"	E-1111	E	X1A4	"	50	"	"	23-2
"	"	O-1112	O	X2D4		12	20 ^h 22 ^m	-24°	23-24
"	"	E-1112	E	X1A4	"	50	"	"	23-35
"	"	O-1113	O	Y2D4		12	22 ^h 6 ^m	-24°	22-47
"	"	E-1113	E	X1A4	"	50	"	"	23-2
Jul 1/2	"	O-1114	O	X2D4		12	15 ^h 10 ^m	-24°	0-55
"	"	E-1114	E	X1A4	"	50	"	"	0-0
"	"	O-1115	O	X2D4		12	17 ^h 12 ^m	-12°	0-5
"	"	E-1115	E	X1A4	"	50	"	"	23-10
"	"	O-1116	O	X2D4		12	17 ^h 36 ^m	-6°	0-53
"	"	E-1116	E	X1A4	"	50	"	"	23-58
"	"	O-1117	O	X2D4		12	20 ^h 48 ^m	-24°	22-53
"	"	E-1117	E	X1A4	"	50	"	"	23-10
"	"	O-1118	O	X2D4		12	21 ^h 36 ^m	-18°	23-17
"	"	E-1118	E	X1A4	"	50	"	"	23-33
Jul 2/3	"	O-1119	O	X2D4		13	15 ^h 36 ^m	+24°	0-37
"	"	E-1119	E	X1A4	"	50	"	"	23-41
"	"	O-1120	O	X2D4		12	17 ^h 12 ^m	0°	0-14
"	"	E-1120	E	X1A4	"	50	"	"	23-19
"	"	O-1121	O	X2D4		12	17 ^h 36 ^m	0°	1-14
"	"	E-1121	E	X1A4	"	50	"	"	0-19
"	"	O-1122	O	X2D4		12	20 ^h 24 ^m	-18°	23-25
"	"	E-1122	E	X1A4	"	50	"	"	23-41

Observing Log

Run No. 58

(con't)

JUNE--JULY, 1954

date	program	plate number	emulsion		filter	exposure	R.A.	Dec.	M.A.
			type	number					
Jul 2/3	Survey	0-1123	1032-0	X2D4		12 ^m	21 ^h 36 ^m	-12°	23-24
"	"	E-1123	E	X1A4	#61	50 ^m	"	"	23-40
Jul 3/4	"	0-1124	O	X2D4		12	19 ^h 4 ^m	-24°	0-0
"	"	E-1124	E	X1A4	"	50	"	"	23-6
"	"	0-1125	O	X2D4	"	12	20 ^h 48 ^m	-18°	23-23
"	"	E-1125	E	X1A4	"	50	"	"	23-7
"	"	0-1126	O	X2D4		12	21 ^h 36 ^m	-6°	23-31
"	"	E-1126	E	X1A4	"	50	"	"	23-47
Jul 4/5	"	0-1127	O	X2D4		13	17 ^h 12 ^m	+18°	0-27
"	"	E-1127	E	X1A4	"	50	"	"	23-31
"	"	0-1128	O	X2D4		13	17 ^h 36 ^m	+12°	1-16
"	"	E-1128	E	X1A4	"	50	"	"	0-22
"	"	0-1129	O	X2D4		12	21 ^h 12 ^m	-18°	22-51
"	"	E-1129	E	X1A4	"	50	"	"	23-8
"	"	0-1130	O	X2D4		12	21 ^h 36 ^m	0°	23-39
"	"	E-1130	E	X1A4	"	50	"	"	23-55
Jul 5/6	"	0-1131	O	X2D4		13	16 ^h 54 ^m	+24°	1-0
"	"	E-1131	E	X1A4	"	50	"	"	0-5
"	"	0-1132	O	X2D4		12	17 ^h 16 ^m	+36°	1-54
"	"	E-1132	E	X1A4	"	50	"	"	0-58
"	"	0-1133	O	X2D4		13	21 ^h 0 ^m	+42°	23-1
"	"	E-1133	E	X1A4	"	50	"	"	23-20
"	"	0-1134	O	X2D4		12	22 ^h 0 ^m	0°	23-14
"	"	E-1134	E	X1A4	"	50	"	"	23-30
Jul 6/7	No Observations								
Jul 7/8	Survey	0-1135	O	X2D4		13	17 ^h 0 ^m	+42°	2-0
"	"	E-1135	E	X1A4	"	50	"	"	1-5
"	"	0-1136	O	X2D4		12	21 ^h 12 ^m	+18°	23-2
"	"	E-1136	E	X1A4	"	50	"	"	23-21
"	"	0-1137	O	X2D4		12	22 ^h 0 ^m	+12°	23-29
"	"	E-1137	E	X1A4	"	50	"	"	23-44
Jul 8/9	Supernovae	PS-713	O	X5D3		2 ^m	12 ^h 10 ^m 24 ^s	+36°2'30"	3-44
"	"	PS-714	O	"		1.5 ^m	14 ^h 36 ^m 0 ^s	+2°14'20"	1-27
"	Survey	0-1138	O	X2D4		12	19 ^h 16 ^m	+72°	0-34
"	"	E-1138	E	X1A4	"	45	"	"	23-43
"	"	0-1139	O	X2D4		12	21 ^h 40 ^m	+30°	22-25
"	"	E-1139	E	X1A4	"	50	"	"	22-42

Supply Record
Run No. 58

JUNE--JULY, 1954

on hand at beginning of run:

plates	200" vault	48"	open	ready box	total	Chemicals	
458,884	—	9x4	1	—	37	D-19	12
486,773	2x21	2x4	—	—	50	Hypo (c)	9
X5D3	2x19	2x10	—	1	59	Hypo (d)	12
X2D4	2x210	2x13	—	1	447	Acid	2
X1A4	2x169	2x4	—	1	347	water	5
X2A4	2x29	—	—	—	58		
X3A4	2x29	—	—	—	58		

date from (or) to: Description

6-23-54 200" 48" 20x2 = 40 X1A4
 6-28-54 Caltech " 32 gal D-19; 20 gal emc. Hypo.
 7-1-54 200" " 20x2 = 40 - X2D4; 10x2 = 20 - X1A4
 7-9-54 48" 200" 4 gal D-19

on hand at end of run:

458,884	—	9x4	1	—	37	D-19	13 1/2
486,773	2x21	2x4	—	—	50	Hypo(c)	25
X5D3	2x19	2x7	—	—	52	Hypo(d)	11
X2D4	2x190	6x2	—	2	394	Acid	1 1/2
X1A4	2x139	2x4	—	2	288	Water	5
X2A4	2x29	—	—	—	58		
X3A4	2x29	—	—	—	58		

See supply record for Run No 55 for defective plates in storage
in spare 200" darkroom.

Plate Testing Record

Run No. 58

JUNE--JULY, 1954

date	emulsion type	number	good	break	broken in box	total	remarks
6-21-54	103a-o	X5D3	2	—	—	2	
"	103a-E	X1A4	1	—	—	1	
6-23-54	"	"	3	—	—	3	
"	103a-o	X2D4	2	—	—	2	
6-25-54	"	"	2	—	—	2	
"	"	X5D3	2	—	—	2	
"	103a-E	X1A4	2	—	—	2	
6-26-54	"	"	4	—	—	4	
"	103a-o	X2D4	4	—	—	4	
6-27-54	"	"	4	—	—	4	
"	103a-E	X1A4	4	—	1	5	
6-29-54	"	"	7	—	—	7	
"	103a-o	X5D3	2	—	—	2	
"	"	X2D4	6	—	—	6	
6-30-54	"	"	4	—	—	4	
"	103a-E	X1A4	6	—	—	6	
7-1-54	"	"	6	—	—	6	
"	103a-o	X2D4	6	—	—	6	
7-2-54	"	"	4	—	—	4	
"	103a-E	X1A4	4	—	—	4	
7-3-54	"	"	6	—	—	6	
"	103a-o	X2D4	6	—	—	6	
7-4-54	"	"	2	—	—	2	
"	103a-E	X1A4	2	—	—	2	
7-5-54	"	"	4	—	—	4	
"	103a-o	X2D4	4	—	—	4	
7-6-54	"	"	4	—	—	4	
"	103a-E	X1A4	4	—	—	4	
7-8-54	"	"	2	—	—	2	
"	103a-o	X2D4	2	—	—	2	
7-9-54	"	"	2	—	—	2	
"	103a-E	X1A4	2	—	—	2	
7-10-54	"	"	2	—	—	2	
"	103a-o	X2D4	2	—	—	2	

Observing Schedule

Run No. 59

JULY--AUGUST, 1954

date	start	stop	no. of plates	no. of sur. pr.	obser.	temp.	wind	sky	seeing
Jul 23/24E-	2029	Mr=2339	0	0	Abell			(Light Rain) Overcast	
24/25	2029	0029	4	0	"	65°	E?	Scattered to overcast	2-
25/26	2028	0127	0	0	"			Overcast	
26/27	2027	0228	2	0	"	66°	NW	thin overcast	3-4
27/28	2026	D= 0320	12	5	"	72°	NW	Mostly clear	3-4
28/29	2025	0321	11	5	"	75°	NW	"	"
29/30	2024	0322	2	1	"	74°	NW	cloudy thru 2:00 than clear	3-4
30/31	2023	0323	11	5	"	76°	NW	clear	2-4
31/1	2021	0324	3	1	"	76°	NW	Overcast	2-4
1/2	Ms=2017	0325	8	3	"	72°	NW	Partly scattered	2-4
2/3	2044	0326	0	0	"	68°	NW	Overcast & broken	
3/4	2111	0327	5	2	Harrington	58°	"	clear	2-, 2
4/5	2141	0328	0	0	"	59°	"	thin clouds	2-
5/6	2213	0329	6	3	"	58°	"	clear	2-4
6/7	2248	0330	6	3	"	61°	S.E.	"	"
7/8	2329	0331	6	3	"	64°	"	"	2-, 2
8/9	0017	0332	4	2	"	65°	"	"	3-4
				33					

Observing Log
Run No. 59
JULY--AUGUST, 1954

date	prog.	plate number	emulsion type	number	filter	expos.	R.A.	Dec.	H.A.
Jul 24/25	Focus	F-69	103a-E	X1A4	#61	7x1 ^m	16 ^h 58 ^m 51 ^s	+22°42'16"	23-46
"	"	F-70	O	X2D4		7x30 ^s	17 ^h 23 ^m 58 ^s	+0°51'56"	23-42
"	"	F-71	E	X1A4	"	7x1 ^m	"	"	23-54
"	"	F-72	O	X2D4		7x30 ^s	17 ^h 51 ^m 49 ^s	-24°52'44"	23-43
Jul 25/26	No Observations								
Jul 26/27	Focus	F-73	E	X1A4	"	7x1 ^m	21 ^h 33 ^m 42 ^s	+14°51'31"	23-29
"	"	F-74	O	X2D4		7x30 ^s	"	"	23-43
Jul 27/28	"	F-75	E	X1A4	New Plastic	7x1 ^m	16 ^h 49 ^m 59 ^s	+15°3'0"	23-46
"	Survey	O-1143	O	X2D4		12 ^m	14 ^h 24 ^m	-12°	3-13
"	"	E-1143	E	X1A4	#61	45	"	"	2-23
"	"	O-1144	O	X2D4		12	17 ^h 36 ^m	0°	1-13
"	"	E-1144	E	X1A4	"	50	"	"	0-18
"	"	O-1145	O	X2D4		12	20 ^h 0 ^m	+42°	0-7
"	"	E-1145	E	X1A4	"	50	"	"	23-9
"	Focus	F-76	O	X2D4	-	7x1/2 ^m	21 ^h 41 ^m 42 ^s	+14°32'36"	23-44
"	Survey	O-1146	O	X2D4		12	22 ^h 0 ^m	0°	23-35
"	"	E-1146	E	X1A4	"	50	"	"	23-62
"	"	O-1147	O	X2D4		12	23 ^h 36 ^m	-6°	23-16
"	"	E-1147	E	X1A4	"	50	"	"	23-32
Jul 28/29	(extra focus) SA 57	PS-716	E	"	"	40	13 ^h 0 ^m	+30°	3-29
"	Survey	O-1148	O	X2D4		13	17 ^h 36 ^m	+60°	0-40
"	"	E-1148	E	X1A4	"	50	"	"	23-45
"	"	O-1149	O	X2D4		13	19 ^h 16 ^m	+72°	0-21
"	"	E-1149	E	X1A4	"	50	"	"	23-24
"	"	O-1150	O	X2D4		12	20 ^h 48 ^m	-18°	23-55
"	"	E-1150	E	X1A4	"	50	"	"	23-1
"	"	O-1151	O	X2D4		12	22 ^h 6 ^m	-24°	23-30
"	"	E-1151	E	X1A4	"	50	"	"	23-47
"	"	O-1152	O	X2D4		13	23 ^h 12 ^m	-12°	23-35
"	"	E-1152	E	X1A4	"	50	"	"	23-52
Jul 29/30	"	O-1153	O	X2D4		13	23 ^h 36 ^m	+18°	23-28
"	"	E-1153	E	X1A4	"	50	"	"	23-45
Jul 30/31	(Bade) D.M. Sys.	PS-717	E	"	"	45	15 ^h 10 ^m 14 ^s	+67°57'13"	1-38
"	Survey	O-1154	O	X2D4		13	17 ^h 12 ^m	0°	1-19
"	"	E-1154	E	X1A4	"	50	"	"	0-24
"	"	O-1155	O	X2D4		12	19 ^h 44 ^m	-24°	0-39
"	"	E-1155	E	X1A4	"	50	"	"	23-46

Observing Log

Run No 59.

(Con't)

JULY--AUGUST, 1954

date	program	plate number	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Jul 30/31	Survey	O-1156	1032-O	X2D4		12"	21 ^h 12 ^m	-18°	22-51
"	"	E-1156	E	X1A4	#61	50	"	"	23-8
"	"	O-1157	O	X2D4		13	22 ^h 24 ^m	+6°	23-32
"	"	E-1157	E	X1A4	"	50	"	"	23-49
"	"	O-1158	O	X2D4		12	23 ^h 50 ^m	-24°	23-19
"	"	E-1158	E	X1A4	"	50	"	"	23-35
Jul 31	"	O-1159	O	X2D4		12	17 ^h 12 ^m	-18°	0-30
"	"	E-1159	E	X1A4	"	50	"	"	23-35
"	(Baade) U. Mi. Sys	PS-718	O	X2D4		13	15 ^h 10 ^m 14 ^s	+67°51'13"	2-58
Aug 1/2	Survey	O-1160	O	"		12	17 ^h 12 ^m	-18°	0-39
"	"	E-1160	E	X1A4	"	50	"	"	23-45
"	Baade (Draco Sys)	PS-720	E	"	"	50	17 ^h 19 ^m 37 ^s	+58°1'11"	1-54
"	"	PS-719	O	X2D4		13	"	"	2-50
"	Survey	O-1161	O	"		13	22 ^h 48 ^m	+18°	23-9
"	"	E-1161	E	X1A4	"	50	"	"	23-27
"	"	O-1162	O	X2D4		13	23 ^h 14 ^m	+48°	23-58
"	"	E-1162	E	X1A4	"	50	"	"	0-17
Aug 2/3	No Observations								
Aug 3/4	—	PS-721	E	X1A4	"	70	20 ^h 0 ^m	+42°	22-0
"	Survey	O-1163	O	X2D4		13	21 ^h 36 ^m	-18°	22-27
"	"	E-1163	E	X1A4	"	50	"	"	22-41
"	"	O-1164	O	X2D4		13	22 ^h 58 ^m	+30°	23-13
"	"	E-1164	E	X1A4	"	50	"	"	23-31
Aug 4/5	No Observations								
" 5/6	Survey	O-1165	O	X2D4		13	21 ^h 40 ^m	+66°	22-54
"	"	E-1165	E	X1A4	"	50	"	"	21-58
"	"	O-1166	O	X2D4		12	22 ^h 32 ^m	-24°	23-18
"	"	E-1166	E	X1A4	"	50	"	"	23-28
"	"	E-1167	O	X2D4		12	23 ^h 24 ^m	-24°	23-32
"	"	O-1167	E	X1A4	"	50	"	"	23-48
Aug 6/7	"	O-1168	O	X2D4		13	21 ^h 28 ^m	+78°	22-31
"	"	E-1168	E	X1A4	"	50	"	"	22-50
"	"	O-1169	O	X2D4		12	22 ^h 58 ^m	-24°	22-58
"	"	E-1169	E	X1A4	"	50	"	"	23-12
"	"	O-1170	O	X2D4		12	23 ^h 12 ^m	-18°	23-53
"	"	E-1170	E	X1A4	"	50	"	"	0-9

observing Log

Run No. 59

(con't)

JULY--AUGUST, 1954

date	program	plate number	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Aug. 7/8	Survey	0-1171	103a-O	X2D4		12	22 ^h 24 ^m	-18°	22-18
"	"	E-1171	103a-E	X1A4	61	50	"	"	22-35
"	"	0-1172	O	X2D4		12	22 ^h 32 ^m	-24°	23-23
"	"	E-1172	E	X1A4	"	50	"	"	23-40
"	"	0-1173	O	X2D4		13	23 ^h 28 ^m	+60°	23-40
"	"	E-1173	E	X1A4	"	50	"	"	23-58
Aug. 8/9	"	0-1174	O	X2D4		13	22 ^h 32 ^m	+30°	23-6
"	"	E-1174	E	X1A4	"	50	"	"	23-25
"	"	0-1175	O	X2D4		13	22 ^h 58 ^m	+24°	23-55
"	"	E-1175	E	X1A4	"	50	"	"	0-13
"	Comet	PS-722	O	X2D4		4 ^m	14 ^h 35 ^m 0 ^s	+66°6'	
Between Runs:									
Aug 9/10	Comet	PS-723	O	X2D4		2 ^m	"	"	3 ^h 5 ^m
Aug 10/11	"	PS-724	O	"		2 ^m	"	"	3 ^h 17 ^m

Supply Record

Run No. 59

JULY--AUGUST, 1954

On hand at beginning of run:

plates	200" vault	48"	open	ready box	total	Chemicals	
458,884	—	9x4	1	—	37	D-19	13
486,773	2x21	2x4	—	—	50	Hypo (c)	25
X5D3	2x19	2x7	—	—	52	Hypo (d)	10½
X2D4	2x190	2x6	—	2	394	Acid	1½
X1A4	2x139	2x4	—	—	286	Water	5
X2A4	2x29	—	—	—	58		
X3A4	2x29	—	—	—	58		

date	From (or)	To:	Description
July 23	200"	48"	15x2=30 X2D4; 15x2=30 X1A4
July 26	Caltech	"	40 gal D-19
Jul 29	48"	200"	4 gal D-19; 4 gal Hypo (c)
Aug 1	200"	48"	12x2=24 X2D4; 12x2=24 X1A4

On Hand at end of run:

458,884	—	9x4	1	—	37		
486,773	2x21	2x4	—	—	50	D-19	29
X5D3	2x19	2x6	—	—	50	Hypo (c)	17
X2D4	2x163	2x12	—	2	352	Hypo (d)	9½
X1A4	2x112	2x2	—	1	243	Acid	1½
X2A4	2x29	—	—	—	58	Water	5
X3A4	2x29	—	—	—	58		

See supply record for Tun No. 55 for defective plates in storage in spare 200" darkroom.

Plate Testing Record

Run No. 59

JULY--AUGUST, 1954

date	emulsion		good	break	broken in box	total	remarks
	type	number					
7-23-54	103a-E	X1A4	6	—	—	6	
"	103a-O	X2D4	4	—	—	4	
7-25-54	"	"	2	—	—	2	
"	103a-E	X1A4	2	—	—	2	
7-27-54	"	"	2	—	—	2	
"	103a-O	X5D3	2	—	—	2	
7-28-54	"	X2D4	6	—	—	6	
"	103a-E	X1A4	6	—	—	6	
7-29-54	"	"	6	—	—	6	
"	103a-O	X2D4	6	—	—	6	
7-30-54	103a-E	X1A4	2	—	—	2	
7-31-54	"	"	6	—	—	6	
"	103a-O	X2D4	6	—	—	6	
8-1-54	"	"	2	—	—	2	
8-2-54	"	"	4	—	—	4	
"	103a-E	X1A4	4	—	—	4	
8-5-54	"	"	2	—	—	2	
8-6-54	"	"	2	—	—	2	
"	103a-O	X2D4	2	—	—	2	
8-7-54	"	"	4	—	—	4	
"	103a-E	X1A4	4	—	—	4	
8-8-54	"	"	2	—	—	2	
"	103a-O	X2D4	6	—	—	6	

Observing schedule
Run No. 60
AUGUST--SEPTEMBER, 1954

date	start	stop	no. of plates	no. sur pair	observ.	temp.	wind	sky	seeing
Aug 24/25	E-1950	Mr-0228	10	3	Abell	60°	S.E.	Clear	1-2+
25/26	1949	0333	7	1	"	54°	SE	"	1-2
26/27	1947	D- 0350	15	4	"	56°	SE	"	2
27/28	1945	0351	0	0	Harrington			Heavy Clouds	
28/29	1944	0352	12	2	"	57	SE.-N.W.	Clear	2-3
29/30	1942	0353	5	0	"	57	N.W.	Clouds by 11:00	2-3
30/31	1941	0354	8	4	"	69	S.E.	Clear?	1-3
31/1	Ms-1942	0355	0	0	"			STORM	
1/2	2013	0355	5 5	2	"	60	S.E.	Scattered clouds	2-3
2/3	2047	0356	6	3	"	53	calm	Clear	2-3+
3/4	2125	0357	8	3	"	52	N.W.	" ?	2
4/5	2209	0358	6	3	"	52	S.E.	clear	2-4
5/6	2259	0359	4	2	"	57	S.E.	"	1-2
6/7	2354	0400	6	3	"	56	Cal/m	"	3+
7/8	0054		4	2	"	53	S.E.	"	2-3

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Observing Log
Run No. 60
AUGUST--SEPTEMBER, 1954

date	prog.	plate number	emulsion type	number	filter	exposure	R.A.	Dec.	H.A.
Aug 24/25	Galactic Center	PS-725	1032-D	X1D4	Y-1	25 ^m	17 ^h 39 ^m 29 ^s	-26°34'30"	0-43
"	SA-61	PS-726	1032-O	X2D4		13 ^m	16 ^h 57 ^m 42 ^s	+29°51'19"	2-0
"	Focus	F-77	1032-E	X1A4	#61	7x1 ^m	19 ^h 32 ^m 25 ^s	+0°8'16"	23-45
"	"	F-78	1032-O	X2D4		7x1/2 ^m	19 ^h 52 ^m 11 ^s	+0°8'29"	23-39
"	Survey	O-1176	"	"		12 ^m	22 ^h 24 ^m	-12°	23-39
"	"	E-1176	E	X1A4	"	50 ^m	"	"	22-44
"	"	O-1177	O	X2D4		12 ^m	22 ^h 58 ^m	-24°	0-19
"	"	E-1177	E	X1A4	"	50 ^m	"	"	23-24
"	"	O-1178	O	X2D4		13 ^m	23 ^h 36 ^m	+18°	0-53
"	"	E-1178	E	X1A4	"	50 ^m	"	"	23-57
Aug 25/26	Supernova in NGC 6768	PS-727	O	X2D4		8 ^m	14 ^h 36 ^m 8 ^s	+2°15'40"	3-39
"	Galac. Center	PS-728	D	X1D4	Y-1	15 ^m	17 ^h 39 ^m 29 ^s	-26°34'30"	0-53
"	So. Ext.	SO-1	O	X2D4		10 ^m	19 ^h 4 ^m	-30°	0-39
"	"	SE-1	E	X1A4	#61	40 ^m	"	"	23-50
"	NGC 7293	PS-729	O	X2D4	Y-1	2 ^{hours}	22 ^h 27 ^m 15 ^s	-21°4'20"	23-31
"	Survey	O-1179	O	"		13 ^m	23 ^h 40 ^m 48 ^s	+18°31'37"	1-19
"	"	E-1179	E	X1A4	#61	50 ^m	"	"	0-25
Aug 26/27	Comet	PS-730	O	X2D4		5 ^m	14 ^h 26 ^m 27 ^s	+63°49.4'	4-2
"	Focus	F-79	E	X1A4	"	5x1 ^m	19 ^h 1 ^m 55 ^s	+17°28'46"	23-37
"	"	F-80	O	X5D3		5x1/2 ^m	"	"	23-49
"	"	F-81	E	X1A4	"	5x1 ^m	19 ^h 31 ^m 32 ^s	-23°58'7"	23-30
"	"	F-82	O	X5D3		5x1/2 ^m	"	"	23-40
"	So. Ext.	SO-2	O	X2D4		10 ^m	19 ^h 56 ^m	-30°	0-7
"	"	SE-2	E	X1A4	"	40 ^m	"	"	23-22
"	Survey	G1180	O	X2D4		12	22 ^h 24 ^m	-12°	22-39
"	"	E-1180	E	X1A4	"	50	"	"	22-56
"	"	O-1181	O	X2D4		12	22 ^h 58 ^m	-24°	23-18
"	"	E-1181	E	X1A4	"	50	"	"	23-34
"	"	O-1182	O	X2D4		13	23 ^h 36 ^m	+18°	1-21
"	"	E-1182	E	X1A4	"	50	"	"	0-25
"	"	O-1183	O	X2D4		12	2 ^h 0 ^m	-12°	23-16
"	"	E-1183	E	X1A4	"	50	"	"	23-32
Aug 27/28	No Observations								
Aug 28/29		PS-731	O	X2D4	—	5	12 ^h 12 ^m	+36°	6-1
"	Comet	PS-732	O	"	—	10	22 ^h 29 ^m	-12°	23-6

Observing Log (con't)

Run No. 60

AUGUST--SEPTEMBER, 1954

date	program	plate number	emulsion type	number	filter	exposure	R.A.	Dec.	H.A.
Aug. 28/29	S. EXT.	50-3	103a-O	X2D4		10	18 ^h 38 ^m	-30°	0-39
"	"	SE-3	103a-E	X1A4	61	40	"	"	23-44
"	"	50-4	O	X2D4		10	19 ^h 30 ^m	-30°	0-43
"	"	SE-4	E	X1A4	"	40	"	"	23-59
"	"	50-5	O	X2D4		10	21 ^h 14 ^m	-30°	23-59
"	"	SE-5	E	X1A4	"	40	"	"	23-15
"	Survey	O-1184	O	X2D4		13	22 ^h 58 ^m	+30°	
"	"	E-1184	E	X1A4	"	50	"	"	23-57
"	"	O-1185	O	X2D4		13	1 ^h 44 ^m	-24°	23-35
"	"	E-1185	E	X1A4	"	50	"	"	22-40
Aug. 29/30	S. EXT.	50-6	O	X2D4		10	20 ^h 22 ^m	-30°	23-32
"	"	SE-6	E	X1A4	"	40	"	"	22-48
"	"	50-7	O	X2D4		10	20 ^h 48 ^m	-30°	0-5
"	"	SE-7	E	X1A4	"	40	"	"	23-21
"	Comet	PS-733	O	X2D4		10	22 ^h 29 ^m	-12°	22-46
Aug. 30/31	Survey	O-1186	O	X2D4		13	22 ^h 48 ^m	-18°	22-24
"	"	E-1186	E	X1A4	"	50	"	"	23-40
"	"	O-1187	O	X2D4		13	23 ^h 12 ^m	-18°	0-40
"	"	E-1187	E	X1A4	"	50	"	"	23-45
"	"	O-1188	O	X2D4		13	0 ^h 26 ^m	+24°	0-47
"	"	E-1188	E	X1A4	"	50	"	"	23-52
"	"	O-1189	O	X2D4		13	1 ^h 24 ^m	+36°	1-04
"	"	E-1189	E	X1A4	"	50	"	"	0-07
Aug. 31/1	No Observations								23-50
Sept. 1/2	Pole	T-38	E	X1A4	"				
"	Survey	O-1190	O	X2D4		13	22 ^h 48 ^m	-18°	0-40
"	"	E-1190	E	X1A4	"	50	"	"	23-43
"	"	O-1191	O	X2D4		13	0 ^h 26 ^m	-24°	0-17
"	"	E-1191	E	X1A4	"	50	"	"	23-21
Sept. 2/3	"	O-1192	O	X2D4		13	23 ^h 12 ^m	-18°	0-7
"	"	E-1192	E	X1A4	"	50	"	"	23-12
"	"	O-1193	O	X2D4		13	0 ^h 0 ^m	-12°	0-32
"	"	E-1193	E	X1A4	"	50	"	"	23-38
"	"	O-1194	O	X2D4		13	1 ^h 12 ^m	-18°	0-33
"	"	E-1194	E	X1A4	"	50	"	"	23-39
Sept. 3/4	—	50-8	O	X2D4		10	21 ^h 40 ^m	-30°	23-53
"	—	SE-8	E	X1A4	"	40	"	"	23-13

Observing Log
(cont.)
Run No. 60
AUGUST--SEPTEMBER, 1954

date	program	plate number	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Sept. 3/4	Survey	O-1195	103a-O	X2D4		13	0h0m	+18°	0-0
"	"	E-1195	103a-E	X1A4	61	50	"	"	23-4
"	"	O-1196	O	X2D4		13	0h48m	0°	0-25
"	"	E-1196	E	X1A4	"	50	"	"	23-30
"	"	O-1197	O	X2D4		13	2h0m	+6°	0-26
"	"	E-1197	E	X1A4	"	50	"	"	23-32
Sept. 4/5	"	O-1198	O	X2D4		13	0h0m	-6°	0-13
"	"	E-1198	E	X1A4	"	50	"	"	23-18
"	"	O-1199	O	X2D4		13	0h52m	-24°	0-43
"	"	E-1199	E	X1A4	"	50	"	"	23-42
"	"	O-1200	O	X2D4		13	2h10m	-24°	0-36
"	"	E-1200	E	X1A4	"	50	"	"	23-42
Sept. 5/6	"	O-1201	O	X2D4		13	1h12m	+6°	0-9
"	"	E-1201	E	X1A4	"	50	"	"	23-15
"	"	O-1202	O	X2D4		13	2h0m	+18°	0-35
"	"	E-1202	E	X1A4	"	50	"	"	23-40
Sept. 6/7	"	O-1203	O	X2D4		13	0h24m	-12°	23-57
"	"	E-1203	E	X1A4	"	50	"	"	23-1
"	"	O-1204	O	X2D4		13	0h48m	-12°	0-44
"	"	E-1204	E	X1A4	"	50	"	"	23-50
"	"	O-1205	O	X2D4		13	2h24m	-6°	0-19
"	"	E-1205	E	X1A4	"	50	"	"	23-25
Sept. 7/8	"	O-1206	O	X2D4		13	0h48m	-6°	0-16
"	"	E-1206	E	X1A4	"	50	"	"	23-20
"	"	O-1207	O	X2D4		13	1h36m	-12°	0-41
"	"	E-1207	E	X1A4	"	50	"	"	23-47
Sept. 8/9	—	T-39	E	"	"	See Card			

Supply Record

Run No. 60

AUGUST--SEPT., 1954

on hand at beginning of run:

plates	200" vault	48"	open	ready box	total	Chemicals	
458,884	—	4x9	1	—	37	D-19	32
486,773	2x21	2x4	—	—	50	hypo(c)	17
X5D3	2x19	2x6	—	—	50	hypo(d)	9½
X2D4	2x163	2x12	—	2	352	acid	1½
X1A4	2x112	2x9	—	1	243	water	5
X2A4	2x29	—	—	—	58		
X3A4	2x29	—	—	—	58		

date	from(or) to:		description	
Aug 27	48"	200"	1 gal	D-19
" 29	"	"	4 "	conc. hypo
" "	200	48"	26x2 = 52	103a-0 X2D4
" "	"	"	26x2 = 52	103a-E X1A4

on Hand at end of run:

458,884	—	9x4	1	—	37	D-19	32 14
486,773	2x21	2x4	—	—	50	hypo (c)	9
X5D3	2x19	2x5	—	—	48	hypo (d)	8½
X2D4	2x137	2x15	—	—	304	acid	1
X1A4	2x86	2x11	—	—	194	water	5
X2A4	2x29	—	—	—	58		
X3A4	2x29	—	—	—	58		

See supply record for run no 55 for defective plates in storage
in spare 200-inch darkroom.

Plate Testing Record
Run No. 60
AUGUST--SEPTEMBER, 1954

date	emulsion		good	break	broken in box	total	remarks
	type	number					
8-24-54	103a-E	X1A4	5	—	1	6	Not broken, bit sticks out in corner
"	O	X2D4	4	—	—	4	
"	D	X1D4	2	—	—	2	
8-25-54	O	X2D4	4	—	—	4	
"	E	X1A4	3	1	—	4	
8-26-54	"	"	4	—	—	4	
"	103a-O	X2D4	6	—	—	6	
"	"	X5D3	2	—	—	2	
8-28-54	"	X2D4	6	—	—	6	
"	103a-E	X1A4	6	—	—	6	
8-29-54	"	"	5	—	—	5	
"	103a-O	X2D4	6	—	—	6	
8-30-54	"	"	1	—	—	1	
"	103a-E	X1A4	1	—	—	1	
8-31-54	"	"	4	—	—	4	
"	103a-O	X2D4	3	—	—	3	
9-2-54	103a-E	X1A4	2	—	—	2	
9-3-54	"	"	4	—	—	4	
"	103a-O	X2D4	4	—	—	4	
9-4-54	"	"	4	—	—	4	
"	103a-E	X1A4	4	—	—	4	
9-5-54	"	"	2	—	—	2	
"	103a-O	X2D4	2	—	—	2	
9-6-54	"	"	2	—	—	2	
"	103a-E	X1A4	2	—	—	2	
9-7-54	"	"	3	—	1	4	
"	103a-O	X2D4	2	—	—	2	

Observing Schedule
Run Number 61
SEPTEMBER--OCTOBER, 1954

date	start	stop	no. of plates	no. of pair	obser.	temp.	wind	sky	seeing
sep 20/21	E = 1909	Mr = 0022	9	3	Abell	72°	Cal/m	clear	2-4
21/22	1908	0126	10	4	"	70°	W	"	2-4
22/23	1907	0228	10	5	"	65°	W	"	2-3
23/24	1905	0327	5	0	"	66°	S	Early: Cirrus Late: clear(?)	<1-1
24/25	1904	D = 0414	2	0	Harrington	57°	S.E.	Smoke clear	2-1
25/26	1902	0414	10	4	"	54°	N.E.	clear	1-2
26/27	1901	0415	6	3	"	55°	N.W.	thin clouds until 12:00	2+
27/28	1900	0416	12	5	"	55°	"	clear	2, 2-
28/29	1858	0416	0	0	"	54°	"	"	1-21
29/30	1857	0417	1	0	"	55°	"	"	1
30/1	Ms = 1923	0418	13	5	Abell	62°	"	"	4-2
Oct 1/2	2005	0419	13	3	"	60°	SW	"	2-3
2/3	2052	0419	12	3	"	59°	SE	"	2-3
3/4	2144	0420	9	4	"	56°	NW	"	<1-3
4/5	2240	0421	8	4	"	59°	SE	"	2-3
5/6	2341	0421	6	3	"	59°	SE	"	3-21
6/7	0044	0422	6	3	"	59°	SE	"	1-2
7/8	0149	0423	0	0	"	62°	SE	"	<1

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Observing Log

Run No. 61

SEPTEMBER--OCTOBER, 1954

date	prog	plate number	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Sept 20 ¹ / ₂	Polar alignment	T-40	1032-0	486,773		13 ^m	Pole at 10 ^m E	10 ^m E	
"	Focus	F-83	1032-E	X1A4	#61	7x1 ^m	20 ^h 5 ^m 3 ^s	+15 [°] 35 ['] 50 ["]	23-34
"	"	F-84	1032-0	486,773		7x ¹ / ₂ ^m	"	"	23-51
"	Survey	O-1208	0	X2D4		12 ^m	20 ^h 48 ^m	-24 [°]	0-20
"	"	E-1208	E	X1A4	"	50 ^m	"	"	23-23
"	"	O-1209	0	X2D4		13 ^m	21 ^h 28 ^m	+78 [°]	1-3
"	"	E-1209	E	X1A4	"	50 ^m	"	"	0-5
"	"	O-1210	0	X2D4		13 ^m	23 ^h 0 ^m	+78 [°]	0-50
"	"	E-1210	E	X1A4	"	50 ^m	"	"	23-53
Sept 21 ¹ / ₂	So. Exb.	SO-9	0	X2D4		10 ^m	19 ^h 4 ^m	-30 [°]	1-3
"	"	SE-9	E	X1A4	"	40 ^m	"	"	0-10
"	Survey	O-1211	0	X2D4		12 ^m	20 ^h 48 ^m	-24 [°]	0-31
"	"	E-1211	E	X1A4	"	50 ^m	"	"	23-37
"	"	O-1212	0	X2D4		13 ^m	21 ^h 40 ^m	+30 [°]	0-54
"	"	E-1212	E	X1A4	"	50 ^m	"	"	0-59
"	"	O-1213	0	X2D4		13 ^m	0 ^h 0 ^m	+78 [°]	23-21
"	"	E-1213	E	X1A4	"	50 ^m	"	"	23-40
"	"	O-1214	0	X2D4		13 ^m	1 ^h 32 ^m	+78 [°]	23-1
"	"	E-1214	E	X1A4	"	50 ^m	"	"	23-19
Sept 22 ¹ / ₂	"	O-1215	0	X2D4		13 ^m	21 ^h 28 ^m	+78 [°]	23-10
"	"	E-1215	E	X1A4	"	50 ^m	"	"	23-31
"	"	O-1216	0	X2D4		13 ^m	22 ^h 30 ^m	+84 [°]	0-35
"	"	E-1216	E	X1A4	"	50 ^m	"	"	23-38
"	"	O-1217	0	X2D4		13 ^m	0 ^h 0 ^m	+72 [°]	23-15
"	"	E-1217	E	X1A4	"	50 ^m	"	"	23-34
"	"	O-1218	0	X2D4		13 ^m	1 ^h 8 ^m	+72 [°]	23-22
"	"	E-1218	E	X1A4	"	50 ^m	"	"	23-42
"	"	O-1219	0	X2D4		13 ^m	2 ^h 16 ^m	+72 [°]	23-33
"	"	E-1219	E	X1A4	"	50 ^m (50m track)	"	"	23-53
Sept 23 ¹ / ₄	Trail	T-41	0	486,773		6 ^m + 3 ^m	21 ^h 49 ^m 28 ^s	+77 [°] 42 ['] 56 ["]	23-50
"	"	T-42	0	"		"	21 ^h 55 ^m 13 ^s	+80 [°] 15 [']	23-30
"	"	T-43	0	"		"	22 ^h 12 ^m 0 ^s	+76 [°] 12 ['] 48 ["]	0-14
"	"	T-44	0	"		"	22 ^h 12 ^m 0 ^s	+76 [°] 12 ['] 48 ["]	1-12
"	"	T-45	0	"		"	2 ^h 40 ^m 26 ^s	+81 [°] 14 ['] 23 ["]	21-42
Sept 24 ¹ / ₅	So. Ex.	SO-10	0	X2D4		10	20 ^h 48 ^m	-30 [°]	0-30
"	"	SE-10	E	X1A4	"	40	"	"	23-46

Observing Log (cont)

Run No. 61

SEPTEMBER--OCTOBER, 1954

date	prog	plate number	emulsion type	number	filter	exposure	R.A.	Dec.	H.A.
Sept. 25	Survey	O-1220	O	X2D4		13	20 ^h 48 ^m	-24°	0-30
"	"	E-1220	E	X1A4	61	50	"	"	23-36
"	"	O-1221	O	X2D4		13	23 ^h 12 ^m	-18°	0-37
"	"	E-1221	E	X1A4	"	50	"	"	23-42
"	"	O-1222	O	X2D4		13	1 ^h 18 ^m	+24°	0-48
"	"	E-1222	E	X1A4	"	50	"	"	23-53
"	"	O-1223	O	X2D4		13	3 ^h 10 ^m	+54°	0-9
"	"	E-1223	E	X1A4	"	50	"	"	23-14
"	S. Ex.	SO-11	O	X2D4		10	22 ^h 32 ^m	-30°	0-5
"	"	SE-11	E	X1A4	"	40	"	"	23-21
Sept. 26	Survey	O-1224	O	X2D4		13	0 ^h 34 ^m	+48°	0-53
"	"	E-1224	E	X1A4	"	50	"	"	23-58
"	"	O-1225	O	X2D4		13	1 ^h 52 ^m	+36°	0-50
"	"	E-1225	E	X1A4	"	50	"	"	23-55
"	"	O-1226	O	X2D4		13	3 ^h 04 ^m	+78°	0-47
"	"	E-1226	E	X1A4	"	50	"	"	23-51
Sept. 27	S. Ex.	SO-12	O	X2D4		10	22 ^h 32 ^m	-30°	0-0
"	"	SE-12	E	X1A4	"	40	"	"	23-16
"	Survey	O-1227	O	X2D4		13	21 ^h 28 ^m	+78°	0-4
"	"	E-1227	E	X1A4	"	50	"	"	23-8
"	"	O-1228	O	X2D4		13	23 ^h 12 ^m	-18°	0-30
"	"	E-1228	E	X1A4	"	50	"	"	23-34
"	"	O-1229	O	X2D4		13	1 ^h 18 ^m	+24°	0-25
"	"	E-1229	E	X1A4	"	50	"	"	23-20
"	"	O-1230	O	X2D4		13	2 ^h 16 ^m	+72°	0-32
"	"	E-1230	E	X1A4	"	50	"	"	23-43
"	"	O-1231	O	X2D4		13	3 ^h 10 ^m	+54°	1-5
"	"	E-1231	E	X1A4	"	50	"	"	0-10
Sept. 28	—	No Observations							
Sept. 29	Supernovae	PS-733	"	O X2D4		10	15 ^h 13 ^m 0 ^s	+58°25'0"	4-29
Sept. 30	Scale Plate	PS-734	E	X1A4	"		20 ^h 19 ^m 21 ^s	+22°41'20"	091 ^m
"	Survey	O-1232	O	X2D4		13	21 ^h 28 ^m	+78°	23-48
"	"	E-1232	E	X1A4	"	50	"	"	0-14
"	S. Ex.	SO-13	O	X2D4		10	22 ^h 58 ^m	-30°	23-38
"	"	SE-13	E	X1A4	"	40	"	"	23-52
"	Survey	O-1233	O	X2D4		13	0 ^h 40 ^m	+60°	23-35
"	"	E-1233	E	X1A4	"	50	"	"	23-54

Observing Log
(con't)

Run No. 61

SEPTEMBER, OCTOBER, 1954

date	prog	plate number	emulsion type	number	filter	exposure	R.A.	Dec.	H.A.
Sept 30/1	Survey	O-1234	1032-0	X2D4		13"	0 ^h 52 ^m	+66°	1-27
"	"	E-1234	E	X1A4	#61	50	"	"	0-30
"	"	O-1235	O	X2D4	"	13	2 ^h 30 ^m	+84°	0-52
"	"	E-1235	E	X1A4	"	50	"	"	23-55
"	"	O-1236	O	X2D4	"	13	3 ^h 48 ^m	+54°	1-2
"	"	E-1236	E	X1A4	"	50	"	"	0-8
Oct 1/2	Scapa Plate	PS-735	E	"	"		23 ^h 2 ^m 44 ^s	+1°21'3"	22-0
"	field of Pl. clusters	PS-736	D	X1D4	Y-1	30	0 ^h 24 ^m	+18°	21-5
"	S. Ext.	SO-14	O	X2D4		10	22 ^h 6 ^m	-30°	0-45
"	"	SE-14	E	X1A4	#61	40	"	"	0-1
"	"	SO-15	O	X2D4		10	23 ^h 24 ^m	-30°	0-27
"	"	SE-15	E	X1A4	"	40	"	"	23-43
"	Survey	O-1237	O	X2D4		13	0 ^h 38 ^m	+54°	23-31
"	"	E-1237	E	X1A4	"	50	"	"	23-51
"	"	O-1238	O	X2D4		13	2 ^h 30 ^m	+84°	23-52
"	"	E-1238	E	X1A4	"	45	"	"	0-12
"	Pleiades	PS-737	O	X2D4		13	3 ^h 50 ^m 0 ^s	+23°142"	0-5
"	Survey	O-1239	O	"		13	4 ^h 36 ^m	+78°	23-25
"	"	E-1239	E	X1A4	"	45	"	"	23-43
Oct 2/3	SA 89+NGC 7006	PS-738	O	X2D4		13	21 ^h 6 ^m 8 ^s	+15°27'30"	0-46
"	S. Ext.	SO-16	O	"		10	22 ^h 58 ^m	-30°	23-13
"	"	SE-16	E	X1A4	"	40	"	"	23-28
"	"	SO-17	O	X2D4		10	23 ^h 50 ^m	-30°	23-22
"	"	SE-17	E	X1A4	"	40	"	"	23-36
"	Ft. cluster	PS-739	D	X1D4	Y-1	30	2 ^h 37 ^m 6 ^s	-1°52'20"	21-39
"	Survey	O-1240	O	X2D4		13	1 ^h 28 ^m	+60°	23-20
"	"	E-1240	E	X1A4	#61	50	"	"	23-38
"	"	O-1241	O	X2D4		13	2 ^h 38 ^m	+66°	0-7
"	"	E-1241	E	X1A4	"	50	"	"	0-27
"	"	O-1242	O	X2D4		13	1 ^h 20 ^m	+66°	23-41
"	"	E-1242	E	X1A4	"	50	"	"	0-0
Oct 3/4	Supernova	PS-740	O	X2D4		3	15 ^h 13 ^m 0 ^s	+58°25'0"	4 ^h 58 ^m
"	Survey	O-1243	O	"		13	0 ^h 40 ^m	+42°	22-42
"	"	E-1243	E	X1A4	"	50	"	"	23-2
"	"	O-1244	O	X2D4		13	0 ^h 26 ^m	+30°	23-32
"	"	E-1244	E	X1A4	"	50	"	"	23-51
"	"	O-1245	O	X2D4		13	1 ^h 54 ^m	+54°	0-44

Observing Log
(con't)
Run No. 61
SEPTEMBER--OCTOBER, 1954

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
		number	type	number					
Oct 3/4	Survey	O-1246	103a-O	X2D4	#61	13 ^m	5 ^h 12 ^m	+66°	22 ^h 44 ^m
"	"	E-1246	E	X1A4	#61	50	"	"	23-3
Oct 4/5	"	O-1247	O	X2D4	"	13	0 ^h 40 ^m	+36°	23-48
"	"	E-1247	E	X1A4	"	50	"	"	0-6
"	"	O-1248	O	X2D4	"	13	2 ^h 10 ^m	+30°	22-52
"	"	E-1248	E	X1A4	"	50	"	"	23-10
"	"	O-1249	O	X2D4	"	13	3 ^h 24 ^m	+48°	23-54
"	"	E-1249	E	X1A4	"	50	"	"	0-13
"	"	O-1250	O	X2D4	"	13	5 ^h 40 ^m	+84°	23-15
"	"	E-1250	E	X1A4	"	45	"	"	23-34
Oct 5/6	"	O-1251	O	X2D4	"	13	1 ^h 12 ^m	+18°	23-36
"	"	E-1251	E	X1A4	"	50	"	"	23-54
"	"	O-1252	O	X2D4	"	13	3 ^h 40 ^m	+42°	23-0
"	"	E-1252	E	X1A4	"	50	"	"	23-20
"	"	O-1253	O	X2D4	"	13	3 ^h 58 ^m	+48°	23-17
"	"	E-1253	E	X1A4	"	50	"	"	23-36
Oct 6/7	"	O-1254	O	X2D4	"	13	2 ^h 36 ^m	+30°	23-16
"	"	E-1254	E	X1A4	"	50	"	"	23-34
"	"	O-1255	O	X2D4	"	13	3 ^h 44 ^m	+36°	23-22
"	"	E-1255	E	X1A4	"	50	"	"	23-41
"	"	O-1256	O	X2D4	"	13	6 ^h 8 ^m	+78°	22-5
"	"	E-1256	E	X1A4	"	45	"	"	22-25

Supply Record
Run No. 61
SEPT.--OCT., 1954

On Hand at beginning of run:

plates	200" vault	48"	open	ready box	total	Chemicals	
458,884	—	9x4	1	—	37	D-19	14
486,773	2x21	2x4	—	—	50	Hypo(c)	9
X5D3	2x19	2x5	—	—	48	Hypo(d)	8½
X2D4	2x137	2x15	—	—	304	Acid	1
X1A4	2x86	2x11	—	—	194	Water	5
X2A4	2x24	—	—	—	58		
X3A4	2x29	—	—	—	58		

date	from(or) to:	description				
9-20-54	Coltuck	48-inch	16gal D-19;	4gal Acid;	20 gals	Hypo (c)
9-25-54	200"	48"	103a-o	X2D4	24x2 = 48	Plates
"	"	"	103a-E	X1A4	"	"
"	98"	18"	2 Gal.	D-19		
10-1-54	200"	48"	2x4 = 8	X1D4		
10-4-54	48"	200"	5gal D-19;	2gal	Hypo	

On hand at end of run:

458,884	—	9x4	1	—	37	D-19	10½
486,773	2x21	—	—	—	42	Hypo (c)	23
X5D3	2x24	3x2	—	4	58	Hypo(d)	7½
X2D4	2x124	6x2	—	2	262	Acid	5
X1A4	2x74	2x3	—	3	157	Water	5
X2A4	2x28	—	—	—	56		
X3A4	2x25	2x4	—	—	58		

See supply record for run No. 55 for defective plates in storage in spare 200-inch darkroom.

plate Testing Record
Run No. 61
SEPTEMBER--OCTOBER, 1954

date	emulsion		good	break	broken		total	remarks
	type	number			in box			
9-20-54	1032-E	X1A4	6	-	-		6	
"	1032-O	486,773	3	-	-		3	
"	"	X2D4	6	-	-		6	
9-21-54	"	"	4	-	-		4	
"	1032-E	X1A4	4	-	-		4	
9-22-54	"	"	4	-	-		4	
"	1032-O	X2D4	4	-	-		4	
9-23-54	"	"	6	-	-		6	
"	1032-E	X1A4	6	-	-		6	
"	1032-O	486,773	4	-	-		4	
9-24-54	"	X2D4	6	-	-		6	
"	1032-E	X1A4	6	-	-		6	
9-27-54	"	"	2	-	-		2	
"	1032-O	X2D4	2	-	-		2	
9-28-54	"	"	4	-	-		4	
"	1032-E	X1A4	4	-	-		4	
9-30-54	"	"	4	-	-		4	
"	1032-O	X2D4	4	-	-		4	
10-1-54	"	"	6	-	-		6	
"	1032-D	X1D4	2	-	-		2	
"	1032-E	X1A4	6	-	-		6	
"	1032-O	X5D3	4	-	-		4	
10-2-54	"	X2D4	4	-	-		4	
"	1032-E	X1A4	4	-	-		4	
10-3-54	"	"	4	-	-		4	
"	1032-O	X2D4	6	-	-		6	
10-4-54	"	"	4	-	-		4	
"	1032-E	X1A4	4	-	-		4	
10-5-54	"	"	4	-	-		4	
"	1032-O	X2D4	4	-	-		4	
10-6-54	"	"	2	-	-		2	
"	1032-E	X1A4	2	-	-		2	
10-7-54	"	"	2	-	-		2	
"	1032-O	X2D4	2	-	-		2	

Observing Schedule
Run No. 62
OCTOBER--NOVEMBER, 1954

date	start	stop	no. of plates	no. of pair	obser.	temp.	wind	sky	seeing
Oct 19/20	E =1832	Mr=0022	2	0	Abell	65°	Calm	Scattered until 12:00	2
20/21	1831	0122	0	0	"	65°	blowing	Broken	
21/22	1830	0220	0	0	"	64°	SW	Scattered	2-3
22/23	1829	0316	0	0	"	60°	W	"	
23/24	1828	0412	3	0	"	47°	NW	<1:30: clear >1:30: fog	<1
24/25	1827	D= 0435	0	0	"	45°	W	Intermittent Fog	<1
25/26	1826	0436	0	0	Harrington	39°	S.E.	clear?	1-<1
26/27	1825	0437	0	0	"	39°	E.	"	<1
27/28	1824	0437	0	0	"	40°	Gusty E.	Some thin stuff	1-<1
28/29	1823	0438	0	0	"	39°	S.E.	clear	1
29/30	Ms=1849	0439	0	0	"	42°	NW-SE	"	2-<1
30/31	1939	0440	8	4	"	48°	" "	"	2-3-<1
31/1	2033	0440	0	0	"	35°	N.W.	Muddy	<1
Nov 1/2	2131	0441	0	0	Abell	(outside) 30°		Fog	
2/3	2231	0442	8	4	"	46°	NW	clear	1-3
3/4	2333	0443	8	4	"	52°	Calm till 3:00; then E	"	3-1
4/5	0036	0443	1	0	"	52°	E	"	<1
5/6	0141	0444	5	2	"	52	E	"	1-3
6/7	0248	0445	0	0	"	52	SW	Overcast	
				<u>19</u>					

Observing Log
Run No. 62
OCTOBER--NOVEMBER, 1954

date	program	plate number	emulsion type	number	filter	exp.	R.A.	Dec.	H.A.
Oct 19/50	Focus	F-85	1032-E	X1A4		7x1"	22 ^h 4 ^m 39 ^s	+0°19'29"	23-30
"	"	F-86	1032-0	X2D4	#61	7x $\frac{1}{2}$ "	"	"	23-45
Oct 20/51	No Observations								
Oct 21/52	"	"							
Oct 22/53	"	"							
Oct 23/54	Galactic Cluster +3A89	PS-741	1032-0	X2D4	-	10 ^m including +10 ^m m5A89	19 ^h 19 ^m 16 ^s	+37°41"	1-35
"	"	PS-742	1032-D	X1D4	Y-1	20 ^m m cluster +20 ^m m5A89	"	"	2-10
"	Object Wilson- Minkowski	PS-743	1032-0	X2D4	-	3X4"	6 ^h 6 ^m 32 ^s	+47°15'20"	21-23
Oct 24/55	No Observations								
" 25/56	"	"							
" 26/57	"	"							
" 27/58	"	"							
" 28/59	"	"							
" 29/60	"	"							
" 30/61	Survey	O-1257	O	X2D4		13	0 ^h 0 ^m	+30°	22-54 ^h ↗
"	"	E-1257	E	X1A4	61	50	"	"	22-36 ^h ↘
"	"	O-1258	O	X2D4		13	0 ^h 26 ^m	-24°	0-23
"	"	E-1258	E	X1A4	"	50	"	"	23-28
"	"	O-1259	O	X2D4		13	1 ^h 12 ^m	0	0-48
"	"	E-1259	E	X1A4	"	50	"	"	23-53
"	"	O-1260	O	X2D4		13	4 ^h 20 ^m	+66°	23-52
"	"	E-1260	E	X1A4	"	50	"	"	22-55
Oct 30/61	No Observations								
Nov 1/62	"	"							
Nov 2/63	Survey	O-1261	O	X2D4		13	1 ^h 36 ^m	+18°	23-45
"	"	E-1261	E	X1A4	"	50	"	"	0-3
"	"	O-1262	O	X2D4		13	2 ^h 30 ^m	+89°	23-51
"	"	E-1262	E	X1A4	"	50	"	"	0-11
"	"	O-1263	O	X2D4		13	5 ^h 12 ^m	-6°	23-50
"	"	E-1263	E	X1A4	"	50	"	"	0-7
"	"	O-1264	O	X2D4		13	6 ^h 36 ^m	+60°	23-35
"	"	E-1264	E	X1A4	"	50	"	"	23-55
Nov 3/64	"	O-1265	O	X2D4		12	2 ^h 10 ^m	-24°	0-54
"	"	E-1265	E	X1A4	"	45	"	"	0-6
"	"	O-1266	O	X2D4		12	3 ^h 36 ^m	-18°	0-35
"	"	E-1266	E	X1A4	"	45	"	"	23-45

Observing Log
Run No. 62

OCTOBER--NOVEMBER, 1964
(con't)

date	program	plate	emulsion		filter	exp.	R.A.	Dec.	H.A.
		number	type	number					
Nov 3/4	Survey	0 - 1267	103a-0	X2D4		12 ^m	5 ^h 12 ^m	+12°	23-59
"	"	E - 1267	E	X1A4	#61	45	"	"	0-15
"	"	0 - 1268	0	X2D4		12	6 ^h 32 ^m	+36°	23-44
"	"	E - 1268	E	X1A4	"	45	"	"	0-1
Nov 4/5	Asteroid	PS-744	0	X5D3	-	10 ^m	3 ^h 45 ^m	-25°44'	0-37
Nov 5/6	Survey	0 - 1269	0	X2D4		12 ^m	5 ^h 12 ^m	-18°	0-21
"	"	E - 1269	E	X1A4	"	45	"	"	23-31
"	"	0 - 1270	0	X2D4		13 ^m	5 ^h 12 ^m	+6°	1-32
"	"	E - 1270	E	X1A4	"	50	"	"	0-38
"	Asteroid	PS-745	0	X5D3		10 ^m	6 ^h 32 ^m	+47°15'20"	1-3

Supply Record
Run No. 62

OCTOBER--NOVEMBER, 1954

On Hand at beginning of run:

plates	200" vault	48"	open	ready box	total
58,884	-	4x9	1	-	37
86,773	2x21	-	-	-	42
X5D3	2x24	2x3	-	4	58
X2D4	2x124	2x6	-	2	262
X1A4	2x74	2x3	-	3	157
X2A4	2x28	-	-	-	56
X3A4	2x25	2x4	-	-	58

Chemicals	
D-19	9½
Hypo(c)	22
Hypo(d)	8
Acid	5
Water	5

date	from(or) to:	Description
Oct 19	200" 48"	2x20=40 X2D4 ; 2x20=40 X1A4
Oct 24	48" 18"	1 gal conc. Hypo
"	48 inch 200-inch	1 gal conc Hypo; 1 gal Acetic Acid
Oct 25	Calcium 48"	32 gal D-19

On Hand at end of run:

58,884	-	4x9	1	-	37
86,773	2x21	-	-	-	42
X5D3	2x24	2x3	2	-	56
X2D4	2x104	2x17	2	1	245
X1A4	2x54	2x15	2	1	141
X2A4	2x28	-	-	-	56
X3A4	2x25	2x4	-	-	58

D-19	34½
Hypo(c)	17
Hypo(d)	8
Acid	4
Water	5

See supply record for run No. 55 for defective plates in storage in spare 200-inch darkroom.

Plate Testing Record
Run No. 62
OCTOBER--NOVEMBER, 1954

date	emulsion		good	break	broken in box	total	remarks
	type	number					
Oct 19	103a-O	X2D4	2	-	-	2	
"	103a-E	X1A4	2	-	-	2	
Oct 20	"	"	2	-	-	2	
	103a-O	X2D4	2	-	-	2	
Oct 24	"	"	4	-	-	4	
" 31	"	"	4	-	-	4	
"	103a-E	X1A4	6	-	-	6	
Nov 3	"	"	4	-	-	4	
"	103a-O	X2D4	4	-	-	4	

Observing Schedule

Run No. 63

NOVEMBER--DECEMBER, 1954

date	start	stop	no. of plates	no. sur. pair	observer	temp.	wind	sky	seeing
17/18E-	1811	Mr=0015	1	0	Abell	53°	NE-strong	clear	<1-1
18/19	1810	0112	3	0	"	54°	NE to Calm	"	<1-1+
19/20	1810	0208	6	3	"	58°	NE	"	<1-2+
20/21	1810	0303	0	0	"	56°	NE	Thin Scattered	<1
21/22	1809	0359	0	0	"	56°	NE	?	<1
22/23	1809	0455	14	7	"	58°	Calm	Clear	2-3
23/24	1809	D =0458	14	6	Harrington	59°	"	"	2-3
24/25	1808	0459	12	5	"	60°	"	"	2-4
25/26	1808	0500	0	0	"	55°	Strong E.	"	1-<1
26/27	1808	0501	12	5	"	59°	N.W.	"	1-3
27/28	Ms=1829	0501	0	0	"	56°	"	"	1-<1
28/29	1925	0502	0	0	"	46°	Strong S.W.	"	1-<1
29/30	2025	0503	0	0	"	28°	S.W.	Fog	<<1
30/1	2125	0504	0	0	"	32°	"	" clouds	—
1/2	2226	0504	0	0	Abell	42°	S	scattered to overcast	
2/3	2328	0505	0	0	"	52°		Overcast	
3/4	0031	0506	0	0	"	42°	SW	Storm	
4/5	0137	0507	6	3	"	46°	SE	clear to thin overcast	2
5/6	0246	0507	0	0	"	48°	SW	Overcast	
				29					

Observing Log
Run No. 63
NOVEMBER-DECEMBER, 1954

date	program	plate	emulsion		filter	exp.	R.A.	Dec.	H.A.
			type	number					
Nov 17/18	NCC 1499	75-746 1000	103a-E	X1A4	New 119	70 ^m	4 ^h 1 ^m 39 ^s	+36°57'9"	21-51
Nov 18/19	Focus	F-87	103a-O	X2D4		7x1/2 ^m	3 ^h 2 ^m 2 ^s	+1°40'10"	23-41
"	"	F-88	E	X1A4	#61	7x1 ^m	"	"	23-52
"	Supernovae?	PS-747	O	X2D4		10 ^m	9 ^h 42 ^m 0 ^s	+68°18'10"	19-20
Nov 19/20	Survey	O-1271	O	"		12	0 ^h 26 ^m	-24°	23-6
"	"	E-1271	E	X1A4	"	45	"	"	23-23
"	"	O-1272	O	X2D4		12	1 ^h 12 ^m	-6°	23-25
"	"	E-1272	E	X1A4	"	45	"	"	23-43
"	"	O-1273	O	X2D4		12	2 ^h 48 ^m	-12°	22-07
"	"	E-1273	E	X1A4	"	45	"	"	23-13
Nov 20/21	No Observations								
Nov 21/22	"	"							
Nov 22/23	Survey	O-1274	O	X2D4		12	0 ^h 48 ^m	+12°	23-0
"	"	E-1274	E	X1A4	"	45	"	"	23-18
"	"	O-1275	O	X2D4		12	1 ^h 36 ^m	+18°	23-21
"	"	E-1275	E	X1A4	"	45	"	"	23-38
"	"	O-1276	O	X2D4		12	3 ^h 2 ^m	+24°	23-3
"	"	E-1276	E	X1A4	"	45	"	"	23-21
"	"	O-1277	O	X2D4		12	2 ^h 30 ^m	+84°	0-29
"	"	E-1277	E	X1A4	"	45	"	"	0-51
"	"	O-1278	O	X2D4		12	6 ^h 4 ^m	+24°	23-17
"	"	E-1278	E	X1A4	"	45	"	"	23-35
"	"	O-1279	O	X2D4		12	7 ^h 22 ^m	+24°	23-8
"	"	E-1279	E	X1A4	"	45	"	"	23-26
"	"	O-1280	O	X2D4		12	8 ^h 40 ^m	-24°	23-0
"	"	E-1280	E	X1A4	"	45	"	"	23-16
Nov 23/24	Zwicky	PS-748	O	X5D3	—	10 sec.	4 ^h	+33°	19-8
"	"	PS-749	O	"	—	"	"	"	0-0
"	Survey	O-1281	O	X2D4		12	2 ^h 0 ^m	-6°	22-24
"	"	E-1281	E	X1A4	61	45	"	"	22-43
"	"	O-1282	O	X2D4		12	2 ^h 0 ^m	+6°	0-25
"	"	E-1282	E	X1A4	"	45	"	"	23-35
"	"	O-1283	O	X2D4		12	2 ^h 24 ^m	0°	1-08
"	"	E-1283	E	X1A4	"	45	"	"	0-18
"	"	O-1284	O	X2D4		12	5 ^h 0 ^m	+84°	0-51
"	"	E-1284	E	X1A4	"	45	"	"	0-0

Observing Log (cont)

Run No. 63

NOVEMBER-DECEMBER, 1954

date	program	plate	emulsion type	sion number	filter	exp.	R.A.	Dec.	H.A.
Nov. 23/24	Survey	O-1285	O	X2D4	—	12	6 ^h 56 ^m	+24°	0-21
"	"	E-1285	E	X1A4	61	45	"	"	23-31
"	"	O-1286	O	X2D4		12	8 ^h 40 ^m	+66°	23-45
"	"	E-1286	E	X1A4	"	45	"	"	22-54
Nov. 24/25	So. Ext.	SO-18	O	X2D4		10	0 ^h 00 ^m	-30°	0-53
"	"	SE-18	E	X1A4	"	40	"	"	0-9
"	Survey	O-1287	O	X2D4		12	2 ^h 10 ^m	-24°	23-48
"	"	E-1287	E	X1A4	"	45	"	"	22-29
"	"	O-1288	O	X2D4		12	2 ^h 36 ^m	+30°	0-27
"	"	E-1288	E	X1A4	"	45	"	"	23-36
"	"	O-1289	O	X2D4		12	4 ^h 20 ^m	+66°	23-48
"	"	E-1289	E	X1A4	"	45	"	"	22-58
"	"	O-1290	O	X2D4		12	5 ^h 36 ^m	+36°	0-29
"	"	E-1290	E	X1A4	"	45	"	"	23-39
"	"	O-1291	O	X2D4		12	7 ^h 20 ^m	+60°	23-02
"	"	E-1291	E	X1A4	"	45	"	"	23-2
Nov. 25/26	No Observations								
Nov. 26/27	So. Ext.	O-19	O	X2D4		10	0 ^h 26 ^m	-30°	0-35
"	"	E-19	E	X1A4	"	40	"	"	23-51
"	Survey	O-1292	O	X2D4		12	2 ^h 24 ^m	-6°	0-19
"	"	E-1292	E	X1A4	"	45	"	"	23-29
"	"	O-1293	O	X2D4		12	4 ^h 36 ^m	+78°	23-30
"	"	E-1293	E	X1A4	"	45	"	"	22-39
"	"	O-1294	O	X2D4		12	6 ^h 00 ^m	+12°	0-2
"	"	E-1294	E	X1A4	"	45	"	"	23-12
"	"	O-1295	O	X2D4		12	7 ^h 40 ^m	+78°	23-24
"	"	E-1295	E	X1A4	"	45	"	"	22-33
"	"	O-1296	O	X2D4		12	8 ^h 48 ^m	+60°	23-31
"	"	E-1296	E	X1A4	"	45	"	"	22-40
Nov. 27/28	No Observations								
" 28/29	"	"	"	"					
" 29/30	"	"	"	"					
Nov. 30/Dec 1	"	"	"	"					
Dec 1/2	"	"	"	"					
Dec 2/3	"	"	"	"					
Dec 3/4	"	"	"	"					
Dec 4/5	"	"	"	"					

NOVEMBER--DECEMBER, 1954

Dec 5/6 NonObservations

Supply Record
Run No. 63
NOVEMBER--DECEMBER, 1954

on hand at beginning of run:

plates	200" vault	48"	open	ready box	total	Chemicals	
458,884	—	4x9	—	—	37	D-19	34½
486,773	2x21	—	—	—	42	Hypo(c)	17
X5D3	2x24	2x3	—	2	56	Hypo(d)	7
X2D4	2x104	2x17	2	1	245	Acid	4
X1A4	2x54	2x15	2	1	141	Water	5
X2A4	2x28	—	—	—	56		
X3A4	2x25	2x4	—	—	58		

date	from(or) to:		Description			
11/23	200"	48"	24 boxes (2)	103a- g ^{X2D4}		(48 Plates)
"	"	"	"	103a-E X1A4		"

On Hand at end of run:

458,884		4x9	—	—	36	D-19	21
486,773	2x21	—	—	—	42	Hypo (a)	13
X5D3	2x24	2x3	—	—	54	Hypo(d)	5
X2D4	2x80	2x24	—	3	211	Acid	3½
X1A4	2x30	2x22	—	2	106	Water	5
X2A4	2x28	—	—	—	56		
X3A4	2x25	2x4	—	—	58		

See Supply record for run no 155 for defective plates in storage
in spare 200-inch darkroom

Plate Testing Record
Run No. 63
NOVEMBER--DECEMBER, 1954

date	emulsion type	number	good	break	broken in box	total	Remarks
Nov 17, 1954	103a-0	X2D4	5	-	1	6	
"	103a-E	X1A4	5	-	1	6	
Nov 19,	"	"	2	-	-	2	
"	103a-0	X2D4	2	-	-	2	
Nov 20	"	"	6	-	-	6	
"	103a-E	X1A4	6	-	-	6	
Nov. 23	"	"	4	-	-	4	
"	103a-0	X2D4	4	-	-	4	
" 24	"	"	8	-	-	8	
"	103a-E	X1A4	8	-	-	8	
Nov. 25	"	"	4	-	-	4	
"	103a-0	X2D4	4	-	-	4	
Nov. 26	"	"	6	-	-	6	
"	103a-E	X1A4	6	-	-	6	

Observing Schedule
Run Number 64
DECEMBER-JANUARY, 1954-55

date	start	stop	no. of plates	no. sur. pair	observer	temp.	wind	sky	seeing
Dec 14/15	E= 1809	Mr=2203	2	0	Harrington	46°	S.E. Breeze	Cloudy	1-2
15/16	1809	2302	0	0	"	40°	S.W.	overcast	
16/17	1810	0000	1	0	"	36°	Gusty N.E.	Clear?	<1
17/18	1810	0056	0	0	"	45°	"	thin Clouds	<1
18/19	1811	0152	0	0	"	45°	Very strong E.	clear	<<1
19/20	1811	0248	0	0	"	44°	Strong E. Breeze	scattered Clouds	<1
20/21	1812	0344	12	6	"	44°	S.E.-N.W.	clear	2-3
21/22	1812	0440	14	7	"	45°	N.W.	"	2-3
22/23	1813	D= 0517			"				
23/24	1813	0517							
24/25	1814	0518			Christmas				
25/26	1814	0518			Holidays				
26/27	Ms=1819	0519	2	0	Abell	33°	NW	"	<1
27/28	1919	0519	1	0	"	28°	NE	"	<<1
28/29	2020	0520	2	1	"	36°	NW	Scattered	2-3
29/30	2121	0520	10	5	"	37°	Cal/m	Clear till 4:00 then scattered	2-1
30/31	2224	0521	1	0	"	36°	NW	Scattered to overcast	1-2
31/1	2326	0521	0	0	"			broken to overcast	
Jan. 1/2	0032	0522	0	0	"		SW	Storm - Rain	
2/3	0140	0522	0	0	"		SW	Storm - Rain & Snow	
3/4	0250	0523	0	0	"	25°	W	Storm - Snow fog	<1
4/5	0400	0523	0	0	"		W	fog; clouds	

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Observing Log
Run No. 64
DECEMBER--JANUARY, 1954-5

date	program	plate	emulsion type	number	filter	exposure	R.A.	Dec.	H.A.
Dec. 14/15	No Observations								
"	Test	F-89	103a-E	X1A4	61				
"	"	F-90	103a-O	X2D4	—				
Dec. 15/16	No Observations								
" 16/17	—	PS-754	103a-E	X1A4	61	10	5 ^h 47 ^m 42 ^s	-37°17'25"	22-53
Dec. 17/18	No Observations								
" 18/19	—	"	"	"					
" 19/20	—	"	"	"					
Dec. 20/21	Survey	O-1300	103a-O	X2D4		12	2 ^h 24 ^m	+12°	22-51
"	"	E-1300	103a-E	X1A4	61	45	"	"	23-8
"	"	O-1301	O	X2D4		12	2 ^h 36 ^m	+30°	23-46
"	"	E-1301	E	X1A4	"	45	"	"	0-3
"	"	O-1302	O	X2D4		12	3 ^h 44 ^m	+36°	23-51
"	"	E-1302	E	X1A4	"	45	"	"	0-8
"	"	O-1303	O	X2D4		12	4 ^h 20 ^m	+66	0-20
"	"	E-1303	E	X1A4	"	45	"	"	0-39
"	"	O-1304	O	X2D4		12	7 ^h 48 ^m	+66	23-10
"	"	E-1304	E	X1A4	"	45	"	"	23-28
"	"	O-1305	O	X2D4		12	8 ^h 24 ^m	0	23-48
"	"	E-1305	E	X1A4	"	45	"	"	0-5
Dec. 21/22	"	O-1306	O			12	2 ^h 24 ^m	+6	22-56
"	"	E-1306	E		"	45	"	"	23-13
"	"	O-1307	O		"	12	2 ^h 48 ^m	+36	23-41
"	"	E-1307	E		"	45	"	"	0-0
"	"	O-1308	O		"	12	4 ^h 0 ^m	+6	23-40
"	"	E-1308	E		"	45	"	"	23-58
"	"	O-1309	O		"	12	5 ^h 04 ^m	+54	23-42
"	"	E-1309	E		"	45	"	"	0-0
"	"	O-1310	O		"	12	7 ^h 22 ^m	+24	23-31
"	"	E-1310	E		"	45	"	"	23-49
"	"	O-1311	O		"	12	8 ^h 24 ^m	+18	23-38
"	"	E-1311	E		"	45	"	"	23-55
"	"	O-1312	O		"	12	9 ^h 48 ^m	+36	23-23
"	"	E-1312	E	X1A4	"	45	"	"	23-40
Dec. 24/27	Asteroid	PS-755	E	"	"	15	3 ^h 26 ^m 36 ^s	-50°44'	23-57
"	"	PS-756	E	"	"	"	3 ^h 25 ^m 47 ^s	-45°0'45"	0-20
Dec. 27/28	"	PS-757	E	"	"	"	3 ^h 8 ^m 59 ^s	-48°54'13"	23-59

DECEMBER--JANUARY, 1954-5

date	program	plate	emulsion type	number	filter	exposure	R.A.	Dec.	H.A.
Dec 28/79	Survey	O-1313	1032-O	X2D4	#61	12 ^m	3 ^h 12 ^m	-6°	0-25
"	"	E-1313	E	X1A4	#61	45	"	"	23-36
Dec 29/30	"	O-1314	O	X2D4	"	12	4 ^h 46 ^m	+30°	23-57
"	"	E-1314	E	X1A4	"	45	"	"	23-7
"	"	O-1315	O	X2D4	"	12	5 ^h 8 ^m	+36°	0-45
"	"	E-1315	E	X1A4	"	45	"	"	23-55
"	"	O-1316	O	X2D4	"	12	6 ^h 24 ^m	-18°	0-39
"	"	E-1316	E	X1A4	"	45	"	"	23-49
"	"	O-1317	O	X2D4	"	12	7 ^h 56 ^m	+48°	1-12
"	"	E-1317	E	X1A4	"	45	"	"	0-21
"	"	O-1318	O	X2D4	"	12	9 ^h 36 ^m	0°	0-43
"	"	E-1318	E	X1A4	"	45	"	"	23-53
Dec 29/31	Orion field	P5-75B	D	X1D4	Amber	30	5 ^h 12 ^m	-6°	0-4
Dec 31/1	No Observations								
Jan 1/2	"	"							
Jan 2/3	"	"							
Jan 3/4	"	"							
Jan 4/5	"	"							

Supply Record

Run No. 64

DECEMBER--JANUARY, 1954-1955

On Hand at beginning of run:

plates	200-inch vault	48-inch open	ready box	total	Chemicals	
458,834	—	4x9	—	36	D-19	21
486,773	2x21	—	—	42	Hypo(c)	13
X5D3	2x24	2x3	—	54	Hypo(d)	5
X2D4	2x80	2x24	—	208	Acid	3 1/2
X1A4	2x30	2x22	—	104	Water	5
X2A4	2x28	—	—	56		
X3A4	2x25	2x4	—	58		

date	from (or) to:	Description
12-20-54	48" 200"	4 Gal. D-19
"	" "	4 Gal. Hypo. Conc.
"	Pasadena 48"	12 Gal. D-19 (National Chemical)
"	" "	4 " D-76 " "
"	" "	4 " Hypo. Conc. " "

On Hand at end of run:

458,834	—	4x9	—	—	36	D-19	23
486,773	2x21	—	—	—	42	Hypo(c)	9
X5D3	2x24	2x3	—	—	54	Hypo(d)	4
X2D4	2x80	2x9	—	10	188	Acid	3 1/2
X1A4	2x30	2x4	—	8	76	Water	5
X2A4	2x28	—	—	—	56		
X3A4	2x25	2x4	—	—	58		

See supply record for run no. 55 for defective plates in storage
in spare 200-inch darkroom.

Plate Testing Record
Run Number 64

DECEMBER--JANUARY, 1954-5

date	emulsion		good	break	broken in box	total	remarks:
	type	number					
Dec. 14/15	103A-O	X2D4	4	—	—	4	
"	103A-E	X1A4	4	—	2	6	
Dec. 20	"	"	4	—	—	4	
"	103A-O	X2D4	4	—	—	4	
Dec. 21	"	"	6	—	—	6	
"	103A-E	X1A4	8	—	—	8	
Dec 26	103E-I	X1A4	10	—	—	10	
"	103A-O	X2D4	10	—	—	10	
Dec 27	103A-D	X1D4	3	—	1	4	
Dec 30	103A-O	X2D4	6	—	—	6	
"	103A-E	X1A4	6	—	—	6	

Observing schedule

Run No. 65

JANUARY--FEBRUARY, 1955

date	start	stop	no. of plates	no. sur. pair	observ.	temp.	wind	sky	seeing
Jan 12/13	E =1827	Mr=2147	0	0	Abell	33°	NE	Clear	<1
13/14	1828	2245	2	1	"	33°	NW	Clear to Scattered	4-1
14/15	1829	2342	9	3	"	36°	NW	Clear to Fog at 2230	2-3
15/16	1830	0039	0	0	"	<30°	SW	Storm	
16/17	1830	0135	0	0	"	"	"	"	
17/18	1831	0231	0	0	"	28°	SW	Overcast	
18/19	1832	0325	0	0	Harrington			Storm (and how?)	
19/20	1832	0417	0	0	"		fog	"	
20/21	1833	0506	0	0	"	25°	N.	clouds - Drifting fog	<1
21/22	1834	D =0523	0	0	"	25°	N.E.	Clear?	<1
22/23	1835	0522	0	0	"	30°	Gusty N.E.	some Thin stuff	<1
23/24	1836	0522	0	0	"	40°	Variable N-N.E.	Clear	±1
24/25	1837	0522	0	0	"	42°		overcast	
25/26	Ms=1913	0521	14	5	Abell	40°	NW-SE	Clear	<1-3
26/27	2016	0521	1	0	"	46°	E	Scattered to Overcast	<1-2
27/28	2120	0521	0	0	"	50°	E	Wet?	<1
28/29	2225	0520	11	5	"	48°	E	Clear	2-3
29/30	2331	0520	0	0	"		SW	High clouds	
30/31	0040	0520	0	0	"		SW	Storm intermittent	
31/1	0148	0519	0	0	"			Fog	<1
Feb 1/2	0253	0519	0	0			SW	Fog	
				14					

Observing Log
Run No. 65

JANUARY--FEBRUARY, 1955

date	program	plate	type	emulsion number	filter	exposure	R.A.	Dec.	H.A.
Jan 12/13	No Observations								
Jan 13/14	Survey	O-1319	1032-O	X2D4		12 ^m	3 ^h 54 ^m	-24°	0-57
"	"	E-1319	E	X1A4	#61	45	"	"	0-8
Jan 14/15	Sculptor Sp.	PS-759	O	X2D4		10 ^m	0 ^h 57 ^m 14 ^s	-34°30'10"	1-18
"	Comet 1954i	PS-760	O	"		"	23 ^h 32 ^m 57 ^s	-74°42'28"	2-59
"	Fornax Sp.	PS-761	O	"		"	2 ^h 37 ^m 43 ^s	-35°14'20"	0-11
"	Survey	O-1320	O	"		12 ^m	2 ^h 48 ^m	+6°	1-2
"	"	E-1320	E	X1A4	"	45	"	"	0-17
"	"	O-1321	O	X2D4	"	12	4 ^h 48 ^m	-10°	0-11
"	"	E-1321	E	X1A4	"	45	"	"	23-21
"	"	O-1322	O	X2D4	"	12	4 ^h 36 ^m	+78°	1-24
"	"	E-1322	E	X1A4	"	45	"	"	0-32
Jan 15/16	No Observations								
Jan 16/17	"	"	"						
Jan 17/18	"	"	"						
" 18/19	"	"	"						
" 19/20	"	"	"						
" 20/21	"	"	"						
" 21/22	"	"	"						
" 22/23	"	"	"						
" 23/24	"	"	"						
" 24/25	"	"	"						
Jan 25/26	Focus	F-91	1032a-E	X2D4	"	7X1	3 ^h 28 ^m 23 ^s	-5°13'41"	23-43
"	"	F-92	O	X1A4	"	7X1/2	3 ^h 42 ^m 13 ^s	-1°18'13"	23-53
"	Survey	O-1323	O	X2D4	"	12	4 ^h 48 ^m	-18°	0-55
"	"	E-1323	E	X1A4	"	50	"	"	0-0
"	"	O-1324	O	X2D4	"	12	6 ^h 24 ^m	-18°	0-26
"	"	E-1324	E	X1A4	"	45	"	"	23-36
"	Asteroid	PS-762	O	X2D4	"	5	6 ^h 21 ^m 42 ^s	-31°43'0"	1-31
"	Zwicky	"	O	"	"	12	9 ^h 55 ^m 36 ^s	+29°46'29"	23-56
"	"IG. bridge"	PS-763	O	"	"	12	9 ^h 44 ^m	+72°	1-49
"	Survey	O-1325	O	"	"	12	"	"	0-58
"	"	E-1325	E	X1A4	"	45	"	"	0-58
"	"	O-1326	O	X2D4	"	12	10 ^h 44 ^m	+78°	1-21
"	"	E-1326	E	X1A4	"	45	"	"	0-30
"	"	O-1327	O	X2D4	"	12	13 ^h 0 ^m	+30°	0-17
"	"	E-1327	E	X1A4	"	45	"	"	23-27
Jan 26/27	Zwicky Coma Cluster	PS-764	O	X2D4	"	12	12 ^h 57 ^m 10 ^s	+28°18'5"	21-14

JANUARY, FEBRUARY, 1955

Feb $\frac{1}{2}$

Supply Record

Run No. 65

JANUARY--FEBRUARY, 1955

On Hand at beginning of run:

plates	200-inch vault	48-inch open	ready box	total
458,884	-	4x9	-	36
486,778	2x21	-	-	42
X5D3	2x24	2x3	-	54
X2D4	2x80	2x9	10	188
X1A4	2x30	2x4	8	76
X2A4	2x28	-	-	56
X3A4	2x25	2x4	-	58

Chemicals	
D-19	23
Hypo(c)	9
Hypo(d)	4
acid	3½
water	5

date from(or) to: Description

Jan 14, 1954 Cattach 48-inch 28 gal Cmc. Hypo. 4 gal D-76
 Between Runs " 200-inch 2x270 = 540. 103a-E plates (X1L4)
 Jan 25 " 48-inch 12 gal D-19
 Jan 26 200-inch " 2x8=16 X1A4; 2x20=40 X2D4; 2x24=48 X1L4
 " 48-inch 18 inch 1 gal D-19; 1 gal (cmc) Hypo
 Jan 29 " 200-inch 1 gal D-19

On Hand at end of run:

458,884	-	4x9	-	-	36
486,778	2x21	-	-	-	42
X5D3	2x24	2x3	-	-	54
X2D4	2x60	2x20	-	8	168
X1A4	2x22	2x10	-	-	64
X2A4	2x29	-	-	-	58
X3A4	2x25	2x4	-	-	58
X1L4	2x246	2x17	-	6	532

D-19	21
Hypo(c)	32
Hypo(d)	3
acid	3½
water	5
D-76	8

See supply record for run no. 55 for defective plates in storage
 in spare 200-inch darkroom.

plate Testing Record

Run No. 65

JANUARY--FEBRUARY, 1955

plate	emulsion		good	break	broken in box	total	remarks
	type	number					
Jan 15	1032-E	X1L4	2	-	-	2	New 1032E's
"	"	X1A4	4	-	-	4	
"	1032-D	X2D4	6	-	-	6	
Jan 26	"	"	7	1	-	8	
"	1032-E	X1L4	6	-	-	6	
Jan 28	"	"	2	-	-	2	
"	1032-D	X2D4	4	-	-	4	

Observing schedule
Run No. 66
FEBRUARY--MARCH, 1955

date	start	stop	no. of plates	no. of sur. pr.	obser.	temp.	wind	sky	seeing
b 11/12	E-1852	MT-2227	0	0	Abell	44°	SE	broken to overcast	2
12/13	1852	2324	10	4	"	52°	NW	clear	3
13/14	1853	0020	0	0	"	53°	SE	high scattered	3
14/15	1854	0115	0	0	"	46°	NW	overcast	
15/16	1855	0208	0	0	Harrington		S.W.	solid overcast	
16/17	1855	0258	0	0	"		"	fog - Rain	
17/18	1856	0344	0	0	"		"	" "	
18/19	1857	0425	0	0	"	20	N.E.	clear	<<1
19/20	1858	0503	2	0	"	24	N.E.	clear?	1-<1
20/21	1859	D- 0504	0	0	"	21	"	"	Soft <<1
21/22	1900	0503	0	0	"	25	"	"	<<1
22/23	1900	0502	0	0	Abell	30	NW	" ?	<<1 - 1
23/24	1908	0501	6	1	"	37	NE	clear to overcast	<1-2-<1
24/25	2014	0459	0	0	"		E	Overcast.	
25/26	2122	0458	0	0	"	28	SW	Fog, Snow	
26/27	2231	0457	0	0	"		SW	storm, snow	
27/28	2339	0456	0	0	"		SW	storm, fog, rain	
28/1	0046	0455	7	3	"	38°	E	clear	2-3
r 1/2	0147	0454	3	0	"	42°	NW	thin clouds	3
2/3	0242	0453	0	0	"	42°	NW	Scattered	2-3
3/4	0329	0452	2	1	"	43°	NW	clear	2-1
				9					

Observing Log

Run No. 66
(con't)

FEBRUARY--MARCH, 1955

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Feb 28	Survey	0-1340 E-1340	1032-0	X2D4		12 ^m	12 ^h 30 ^m	+84°	2-41
"	"	E-1340	E	X1C4	#61	50	"	"	1-45
"	Asteroid field	PS-772	0	X2D4		10	16 ^h 24 ^m 21 ^s	-29° 10' 37"	23-9
Mar 1/2	NGC 4214	PS-773	0	"		7	12 ^h 10 ^m 2 ^s	+36° 2' 25"	1-14
"	NGC 5668	PS-774	0	"		7	14 ^h 36 ^m 8 ^s	+2° 15' 40"	23-2
"	NGC 5879	PS-775	0	"		7	15 ^h 13 ^m 0 ^s	+58° 25' 0"	22 ^h 40 ^m
Mar 2/3	No Observations								
Mar 3/4	Survey	0-1341	0	"		12	13 ^h 36 ^m	+72°	0-56
"	"	E-1341	E	X1C4	"	50	"	"	1-15

Supply Record

Run No.66

FEBRUARY--MARCH, 1955

On Hand at beginning of run:

plates	200-inch vault	48-inch	open	ready box	total
58,884	—	4x9	—	—	36
56,773	2x21	—	—	—	42
X5D3	2x24	2x3	—	—	54
X2D4	2x60	2x20	—	8	168
X1A4	2x22	2x10	—	—	64
X1L4	2x246	2x17	—	6	532
X2A4	2x29	—	—	—	58
X3A4	2x25	2x4	—	—	58

Chemicals	
D-19	37
D-76	11 8
Hypo(c)	40
Hypo(d)	3
Acid	3
water	5

date from to Description

Between ^{Runs} C2/tech 48-inch 16 gal D-19; 8 gal Hypo (c)
 2-11-55 48-inch 200 inch 4 gal D-19; 7 gal Hypo (c)

On Hand at end of run:

58,884	—	4x9	—	—	36
56,773	2x21	—	—	—	42
X5D3	2x24	2x3	—	—	54
X2D4	2x60	2x14	—	1	149
X1A4	2x22	2x10	—	—	64
X1L4	2x246	2x11	—	7	521
X2A4	2x29	—	—	—	58
X3A4	2x25	2x4	—	—	58

D-19	27
D-76	8
Hypo(c)	32
Hypo(d)	2
Acid	3
water	5

Plate Testing Record

Run No. 66

FEBRUARY--MARCH, 1955

date	emulsion		good	break	broken in box	total	remarks
	type	number					
Feb 13	103a-D	X2D4	6	-	-	6	
"	103a-D	X1L4	6	-	-	6	
Feb 23	"	"	5	1	-	6	
"	103a-D	X2D4	5	-	1	6	

Observing schedule

MARCH, 1955

Run No. 67

date	start	stop	no. of plates	no. sur. pair	observer	temp.	wind	sky	seeing
Mar 11/12	E=1918	Mr=2111	0	0	Abell	36°	SW	fog	<1-2
12/13	1914	2209	6	1	"	45°	NW to SW	clear	2-3
13/14	1915	2305	8	3	"	38°	NW	"	2-3
14/15	1916	2358	7	0	"	42°	NW	Fog till 8:00 then clear	<1-1
15/16	1917	0049	2	0	"	40°	S	clear till 10:30; then fog	<1-1
16/17	1917	0135	0	0	"	28° (outside)	S	Intermittent fog	<1
17/18	1918	0218	0	0	Harrington	34°	Gusty E. to N.E.	clear?	1-41
18/19	1919	0257	10	5	"	33°	Calm	"	2-2
19/20	1920	0333	0	0	"	34°	S.W.	fog	<1
20/21	1921	0407	0	0	"	28°	N.-N.E.	Muddy!	<1
21/22	1922	D= 0428	6	3	"	34°	Variable	clear	1-2-1
22/23	1923	0426	8	4	"	35°	W.-N.W.	"	3-2-1
23/24	1924	0425	12	6	"	44°	N.W.	"	1-3+
24/25	1924	0423	14	7	Abell	54	"	"	2-4
25/26	Ms=2016	0422	0	0	"		SW	Overcast (thin clouds)	
26/27	2127	0420	6	2	"	52°	E to SE	thin overcast to clear	<1-2
27/28	2236	0419	0	0	"		SW	Overcast	
28/29	2341	0417	8	1	"	47°	S	clear	<1-2
29/30	0038	0416	1	0	"	48°	N	"	<1
30/31	0128	0415	4	2	"	49°	SE	"	2
31/1	0210	0413	4	2	"	52°	N	"	3-4
				36					

Observing Log
Run No. 67

MARCH, 1955

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A
			type	number					
Mar 11/12	No Observations								
Mar 12/13	Survey	O-1342	1032-O	X2D4		12 ^m	8 ^h 52 ^m	+36°	23-10
Mar 12/13	"	E-1342	1032-E	X1L4	#61	50	"	"	23-28
"	Focus	F-95	1032-O	X2D4		7x1/2	9 ^h 49 ^m 38 ^s	+0°18'40"	23-35
"	"	F-96	E	X1L4	"	7x1	"	"	23-45
"	"	F-97	O	X2D4		7x1/2	6 ^h 42 ^m 37 ^s	+0°0'35"	3-8
"	NGC 5668	PS-776	O	"		3	14 ^h 36 ^m 8 ^s	+2°15'40"	19-29
Mar 13/14	Survey	O-1343	O	"		12	6 ^h 48 ^m	-18°	0-39
"	"	E-1343	E	X1L4	"	50	"	"	23-45
"	"	O-1344	O	X2D4		12	7 ^h 48 ^m	+30°	0-50
"	"	E-1344	E	X1L4	"	50	"	"	23-55
"	"	O-1345	O	X2D4		12	9 ^h 48 ^m	+36°	0-4
"	"	E-1345	E	X1L4	"	50	"	"	23-4
"	Virgo Cluster	PS-777	O	X2D4		12	12 ^h 25 ^m 22 ^s	+14°0'5"	21-52
"	NGC 5668	PS-778	O	"		6	14 ^h 36 ^m 8 ^s	+2°15'40"	20-0
March 14/15	Osterbrock	PS-779	D	X1D4	Amber	30	5 ^h 36 ^m	+0°	2-44
"	Virgo C1	PS-780	O	X2D4		12	12 ^h 29 ^m 1 ^s	+12°24'	20-55
"	"	PS-781	O	"		"	12 ^h 25 ^m 2 ^s	+8°53'	21-17
"	"	PS-782	O	"		"	12 ^h 44 ^m 7 ^s	+12°14'	21-15
"	"	PS-783	O	"		"	12 ^h 18 ^m 2 ^s	+18°4'	22-0
"	"	PS-784	O	"		"	12 ^h 17 ^m 5 ^s	+14°8'	22-19
"	"	PS-785	O	"		"	12 ^h 34 ^m 6 ^s	+9°4'	22-21
March 15/16	Osterbrock	PS-786	D	X1D4	Amber	30	5 ^h 12 ^m	0° (1855)	1-35
"	"	PS-787	D	"	"	"	5 ^h 36 ^m	-6°	1-51
March 16/17	No Observations								
17/18	"	"	"	"					
18/19	Survey	O-1346	O	X2D4	—	12	6 ^h 48 ^m	0°	1-13
"	"	E-1346	E	X1L4	61	50	"	"	0-18
"	"	O-1347	O	X2D4	—	12	8 ^h 14 ^m	+30°	1-3
"	"	E-1347	E	X1L4	"	50	"	"	0-6
"	"	O-1348	O	X2D4		12	10 ^h 12 ^m	+48°	0-21
"	"	E-1348	E	X1L4	"	50	"	"	23-25
"	"	O-1349	O	X2D4		12	11 ^h 0 ^m	+42°	0-49
"	"	E-1349	E	X1L4	"	50	"	"	23-54
"	"	O-1350	O	X2D4		12	13 ^h 2 ^m	+48°	0-48
"	"	E-1350	E	X1L4	"	50	"	"	23-53

Observing Log
Run No. 67 (con't)
MARCH, 1955

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Mar. 19/20		NO Observations							
20/21		"	"						
21/22	Survey	O-1351	103a-O	X2D4	—	12	8 ^h 14 ^m	+30°	23-47
"	"	E-1351	103a-E	X1L4	61	50	"	"	0-5
"	"	O-1352	O	X2D4		12	9 ^h 58 ^m	+24°	23-18
"	"	E-1352	E	X1L4	"	50	"	"	23-38
"	"	O-1353	O	X2D4		12	11 ^h 16 ^m	+24°	23-54
"	"	E-1353	E	X1L4	"	50	"	"	0-12
22/23	"	O-1354	O	X2D4		12	7 ^h 12 ^m	+12°	0-14
"	"	E-1354	E	X1L4	"	50	"	"	0-31
"	"	O-1355	O	X2D4		12	8 ^h 40 ^m	+24°	23-59
"	"	E-1355	E	X1L4	"	50	"	"	0-16
"	"	O-1356	O	X2D4		12	10 ^h 0 ^m	+18°	23-51
"	"	E-1356	E	X1L4	"	50	"	"	0-8
"	"	O-1357	O	X2D4		12	10 ^h 50 ^m	+30°	0-14
"	"	E-1357	E	X1L4	"	50	"	"	0-32
23/24	"	O-1358	O	X2D4		12	8 ^h 48 ^m	+6°	0-1
"	"	E-1358	E	X1L4	"	50	"	"	0-17
"	"	O-1359	O	X2D4		12	10 ^h 0 ^m	+6°	0-1
"	"	E-1359	E	X1L4	"	50	"	"	0-18
"	"	O-1360	O	X2D4		12	11 ^h 42 ^m	-24°	23-33
"	"	E-1360	E	X1L4	"	50	"	"	23-49
"	"	O-1361	O	X2D4		12	13 ^h 0 ^m	-24°	23-43
"	"	E-1361	E	X1L4	"	50	"	"	0-0
"	"	O-1362	O	X2D4		12	14 ^h 44 ^m	-24°	23-10
"	"	E-1362	E	X1L4	"	50	"	"	23-26
"	"	O-1363	O	X2D4		12	15 ^h 0 ^m	+84°	0-19
"	"	E-1363	E	X1L4	"	50	"	"	0-37
Mar. 24/25	"	O-1364	O	X2D4		12	8 ^h 14 ^m	+24°	0-16
"	"	E-1364	E	X1L4	"	50	"	"	23-30
"	"	O-1365	O	X2D4		12	9 ^h 16 ^m	+30°	1-6
"	"	E-1365	E	X1L4	"	50	"	"	23-51
"	"	O-1366	O	X2D4		12	10 ^h 50 ^m	+24°	0-36
"	"	E-1366	E	X1L4	"	50	"	"	23-41
"	"	O-1367	O	X2D4		12	12 ^h 0 ^m	+42°	0-39
"	"	E-1367	E	X1L4	"	50	"	"	23-44
"	"	O-1368	O	X2D4		12	14 ^h 44 ^m	+48°	22-40
"	"	E-1368	E	X1L4	"	50	"	"	22-58

Observing Log
Run No. 67 (con't)
MARCH, 1955

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Mar 24/5	Survey	O-1369	103a-O	X2D4		12"	16 ^h 0 ^m	+42°	22-38
"	"	E-1369	E	X1L4	#61	50	"	"	22-55
"	"	O-1370	O	X2D4		12	17 ^h 0 ^m	+48°	22-51
"	"	E-1370	E	X1L4	"	50	"	"	23-8
March 25/5	No Observations								
March 26/5	Comet	PS-788	O	X2D4		12	11 ^h 11 ^m 3 ^s	+20°24'9"	2-21
"	Comet cluster	PS-789	O	X2D4		12	12 ^h 57 ^m 10 ^s	+28°18'5"	0-54
"	Survey	O-1371	O	X2D4		12	15 ^h 0 ^m	+42°	23-20
"	"	E-1371	E	X1L4	"	50	"	"	23-42
"	"	O-1372	O	X2D4		12	16 ^h 24 ^m	+12°	23-13
"	"	E-1372	E	X1L4	"	50	"	"	23-29
Mar 27/5	No Observations								
Mar 28/5	NAC 5128	PS-790	O	X2D4		8	13 ^h 22 ^m 2 ^s	-41°15'	23-19
"	" + B10	PS-791	O	"		4	"	"	23-32
"	"	PS-792	D	X1D4	#06 (Y1)	6	"	"	0-5
"	"	PS-793	D	"	"	12	"	"	0-17
"	Focus	F-98	E	X1L4	#61	7x1	14 ^h 43 ^m 5 ^s	+24°53'	23-49
"	"	F-99	O	X2D4		7x1/2	"	"	0-2
"	Survey	O-1373	O	"		12	14 ^h 44 ^m	+72°	1-42
"	"	E-1373	E	X1L4	"	50	"	"	0-46
Mar 29/5	Comet	PS-794	O	X5D3		5	11 ^h 11 ^m 3 ^s	+20°24'9"	2-10
Mar 30/5	Survey	O-1374	O	X2D4		12	13 ^h 48 ^m	+78°	0-47
"	"	E-1374	E	X1L4	"	50	"	"	1-5
"	"	O-1375	O	X2D4		12	16 ^h 26 ^m	+48°	23-21
"	"	E-1375	E	X1L4	"	50	"	"	23-38
Mar 31/5	"	O-1376	O	X2D4		12	15 ^h 30 ^m	+42°	0-10
"	"	E-1376	E	X1L4	"	50	"	"	23-15
"	"	O-1377	O	X2D4		12	16 ^h 54 ^m	+24°	23-5
"	"	E-1377	E	X1L4	"	50	"	"	23-23

Supply Record
Run No. 67
MARCH, 1955

On Hand at Beginning of Run:

plates	200-inch vault	48-inch	open	ready box	total	Chemicals	
458,884	—	4x9	—	—	36	D-19	27
486,773	2x21	—	—	—	42	D-76	8
X5D3	2x24	2x3	—	—	54	Hypo(c)	32
X2D4	2x60	2x14	—	1	149	Hypo(d)	2
X1A4	2x22	2x10	—	—	64	Acid	3
X1L4	2x246	2x11	—	7	521	Water	5
X2A4	2x29	—	—	—	58		
X3A4	2x25	2x4	—	—	58		

Date	From	To	Description
Mar 25	48	18	2 gal D-19
Mar 26	48	200	" "
?	Caltech	200	2x244 = 488 X7B5 (1032-0)
Mar 29	200	48	15x2=30 x1L4's; 25x2=50 x2D4's
Mar 30	48	200	2 gal D-19

On Hand at end of run:

458,884	—	4x9	—	—	36	D-19	3 1/2
486,773	2x24	—	—	—	42	D-76	8
X5D3	2x24	2x2	—	1	53	Hypo(c)	32
X2D4	2x35	2x24	—	1	119	Hypo(d)	1
X1A4	2x22	2x10	—	—	64	Acid	3
X1L4	2x286	2x21	—	—	474	Water	5
X2A4	2x29	—	—	—	58		
X3A4	2x25	2x4	—	—	58		
X7B5	2x244	—	—	—	488		

Plate Testing Record
Run No. 67
MARCH, 1955

date	emulsion		good	break	broken in box	total	remarks
	type	number					
Mar 11	1032-0	X2D4	4	-	-	4	
13	"	"	10	-	-	10	
14	"	"	6	-	-	6	
14	1032-E	X1L4	6	-	-	6	
16	1032-0	X1D4	4	-	-	4	
19	1032-E	X1L4	4	-	-	4	
19	1032-0	X2D4	6	-	-	6	
22	"	"	2	-	-	2	
"	1032-E	X1L4	4	-	-	4	
23	"	"	4	-	-	4	
"	1032-0	X2D4	4	-	-	4	
24	"	"	8	-	-	8	
"	1032-E	X1L4	8	-	-	8	
25	"	"	6	-	-	6	
"	1032-0	X2D4	6	-	-	6	
27	"	"	4	-	-	4	
29	"	X5D3	2	-	-	2	
30	"	X2D4	1	-	1	2	
31	"	"	2	-	-	2	

Observing Schedule
Run No. 68
APRIL, 1955

date	start	stop	no. of plates	no. sur. pair	observer	temp.	wind	sky	seeing
11/12E	=1940	Mr=2241	6	2	Abell	50	NE	Clear	2-3
12/13	1941	2329	6	3	"	54	NW	Some scattered Cirrus	3-4
13/14	1942	0013	8	4	"	53	SW	Clear	1-3
14/15	1943	0052	9	4	"	50	SW	"	2-3
15/16	1943	0129	10	5	"	51	SW	"	3
16/17	1944	0203	0	0	"		SW	Overcast	
17/18	1945	0235	7	3	"	43	Strong SW	Clear till 12:30; then fog	2-4
18/19	1946	0308	0	0	"	24 (outside)	SW	fog	<<<1
19/20	1947	0341	12	6	Harrington	35	N.W.	Clear	2-4
20/21	1948	D -0345	4	2	"	36	S.E.	clear?	1-2-1
21/22	1949	0343	0	0	"		STORM		
22/23	1950	0342	0	0	"		fog		
23/24	Ms=2017	0340	9	4	"	44	S.E.	clear	1-1-4
24/25	2126	0339	3	1	"	38	Gusty N.W.	" ?	<1-2-1
25/26	2229	0337	0	0	"		fog - overcast		
26/27	2323	0336	1	0	Abell	36°	NW	fog - to overcast	<1-1
27/28	0008	0334	7	3	"	50	NW	Clear	2-4
28/29	0048	0333	0	0	"	48	SE	Overcast	-
29/30	0123	0332	0	0	"	35 (outside)	S	fog & drizzle	
30/1	0154	0331	0	0	"		SW	Snow	
1/2	0224	0329	0	0	"		SW	"	
				37					

Observing Log

Run No. 68

APRIL, 1955

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Apr 11/12	Focus	F-700	103a-0	X2D4		7x $\frac{1}{2}$ "	9 ^h 26 ^m 52 ^s	-1°58'8"	23-28
"	"	F-101	E	X1L4	#61	7x1"	"	"	23-49
"	Survey	O-1378	O	X2D4		12"	10 ^h 24 ^m	-24°	23-5
"	"	E-1378	E	X1L4	"	50	"	"	23-21
"	"	O-1379	O	X2D4	"	12	11 ^h 42 ^m	+30°	22-56
"	"	E-1379	E	X1L4	"	50	"	"	23-14
Apr 12/13	"	O-1380	O	X2D4	"	12	10 ^h 24 ^m	+24°	23-4
"	"	E-1380	E	X1L4	"	50	"	"	23-21
"	"	O-1381	O	X2D4	"	12	12 ^h 8 ^m	+30°	22-35
"	"	E-1381	E	X1L4	"	50	"	"	22-52
"	"	O-1382	O	X2D4	"	12	13 ^h 36 ^m	+48°	22-22
"	"	E-1382	E	X1L4	"	50	"	"	22-39
Apr 13/14	"	O-1383	O	X2D4	"	12	9 ^h 32 ^m	-24°	0-27
"	"	E-1383	E	X1L4	"	50	"	"	23-33
"	"	O-1384	O	X2D4	"	12	14 ^h 16 ^m	-24°	23-0
"	"	E-1384	E	X1L4	"	50	"	"	23-16
"	"	O-1385	O	X2D4	"	12	12 ^h 0 ^m	+42°	23-26
"	"	E-1385	E	X1L4	"	50	"	"	23-44
"	"	O-1386	O	X2D4	"	12	14 ^h 0 ^m	+42°	22-41
"	"	E-1386	E	X1L4	"	50	"	"	22-58
Apr 14/15	"	O-1387	O	X2D4	"	12	10 ^h 24 ^m	+30°	22-52
"	"	E-1387	E	X1L4	"	50	"	"	23-9
"	"	O-1388	O	X2D4	"	12	11 ^h 16 ^m	-24°	23-13
"	"	E-1388	E	X1L4	"	50	"	"	23-30
"	"	O-1389	O	X2D4	"	12	12 ^h 2 ^m	+54°	23-38
"	"	E-1389	E	X1L4	"	50	"	"	23-55
"	Comet	PS-795	O	X2D4		10	13 ^h 26 ^m 56 ^s	+48°6'18"	23-30
"	Survey	O-1390	O	"	"	12	14 ^h 44 ^m	+30°	22-26
"	"	E-1390	E	X1L4	"	50	"	"	22-44
Apr 15/16	"	O-1391	O	X2D4	"	12	9 ^h 58 ^m	-24°	0-14
"	"	E-1391	E	X1L4	"	50	"	"	23-19
"	"	O-1392	O	X2D4	"	12	11 ^h 12 ^m	+6°	23-17
"	"	E-1392	E	X1L4	"	50	"	"	23-34
"	"	O-1393	O	X2D4	"	12	13 ^h 0 ^m	+30°	22-42
"	"	E-1393	E	X1L4	"	50	"	"	22-59
"	"	O-1394	O	X2D4	"	12	14 ^h 24 ^m	-12°	22-29
"	"	E-1394	E	X1L4	"	50	"	"	22-46

Observing Log (con't)

Run No. 68
APRIL, 1955

date	program	plate	type	emulsion number	filter	exposure	R.A.	Dec.	H.A.
Apr 15/16	Survey	O-1395	1032-O	X2D4		12 ^m	15 ^h 10 ^m	-24°	22-56
"	"	E-1395	E	X1L4	#61	50	"	"	23-12
Apr 16/17	No Observations								
Apr 17/18	Survey	O-1396	O	X2D4		12	9 ^h 58 ^m	+30°	0-15
"	"	E-1396	E	X1L4	"	50	"	"	23-20
"	"	O-1397	O	X2D4	"	12	10 ^h 48 ^m	0°	0-39
"	"	E-1397	E	X1L4	"	50	"	"	23-44
"	"	O-1398	O	X2D4	"	12	12 ^h 8 ^m	+30°	0-31
"	"	E-1398	E	X1L4	"	50	"	"	23-36
"	Comet	PS-796	O	X2D4		10	13 ^h 26 ^m 56 ^s	+48°6'18"	23-38
Apr 18/19	No Observations								
" 19/20	Survey	O-1399	O	}		12	10 ^h 24 ^m	+6	23-19
"	"	E-1399	E		"	50	"	"	23-36
"	"	O-1400	O		"	12	11 ^h 12 ^m	0	23-44
"	"	E-1400	E		"	50	"	"	0-1
"	"	O-1401	O		"	12	12 ^h 0 ^m	0	0-8
"	"	E-1401	E		"	50	"	"	0-25
"	"	O-1402	O		"	12	15 ^h 12 ^m	0	22-45
"	"	E-1402	E		"	50	"	"	23-02
"	"	O-1403	O		"	12	16 ^h 28 ^m	+24°	22-42
"	"	E-1403	E		"	50	"	"	22-59
"	"	O-1404	O		"	12	15 ^h 52 ^m	+48°	0-33
"	"	E-1404	E		"	50	"	"	0-50
Apr. 20/21	"	O-1405	O		"	12	12 ^h 24	0	23-29
"	"	E-1405	E		"	50	"	"	23-46
"	"	O-1407	O		"	12	15 ^h 36 ^m	+64	0-26
"	"	E-1407	E		"	50	"	"	0-43
Apr. 21/22	No Observations								
22/23	"	"	"	"					
23/24	Survey	O-1406	O	}		12	11 ^h 36 ^m	+18	22-48
"	"	E-1406	E		61	50	"	"	23-5
"	"	O-1408	O		"	12	12 ^h 28 ^m	+48	23-10
"	"	E-1408	E		"	50	"	"	23-28
"	"	O-1409	O		"	12	13 ^h 56 ^m	+54	22-58
"	"	E-1409	E		"	50	"	"	23-17
"	"	O-1410	O		"	12	16 ^h 28 ^m	+66	0-8
"	"	E-1410	E		"	50	"	"	0-26

Observing Log (cont)

Run No. 68
APRIL, 1955

date	program	plate	emulsion type number	filter	exposure	R.A.	Dec..	H.A.
Apr 23/24	Comet	PS-797	103a-0 X2D4	—	10	11 ^h 12 ^m	+23° 22'	3-0
" 24/25	"	PS-798	" "		5-40-5	"	"	0-40
"	Survey	O-1411	O X2D4		12	12 ^h 28 ^m	+72°	0-26
"	"	E-1411	E X1L4	61	50	"	"	0-46
" 25/26	No Observations							
Apr 26/27	Focus	F-102	O X5D3		7 x 1/2 ^m	12 ^h 53 ^m 52 ^s	-0° 40' 59"	23-42
Apr 27/28	Opposition Field	PS-799	E X1L4	"	5-3 ^m exposures separated by 30 ^m	14 ^h 16 ^m 40 ^s	-13° 9' 54"	
"	Survey	O-1412	O X2D4		12	14 ^h 48 ^m	+6°	0-39
"	"	E-1412	E X1L4	"	50	"	"	23-39
"	"	O-1413	O X2D4		12	15 ^h 50 ^m	+54°	23-55
"	"	E-1413	E X1L4	"	50	"	"	0-13
"	"	O-1414	O X2D4		12	16 ^h 52 ^m	+60°	0-8
"	"	E-1414	E X1L4	"	50	"	"	0-25
Apr 28/29	No Observations							
Apr 29/30	"	"	"					
Apr 30/1	"	"	"					
May 1/2	"	"	"					

Supply Record
Run No. 68
APRIL, 1955

On hand at beginning of run:

plates	200-inch vault	48-inch open	ready box	total
458,884	—	4x9	—	36
486,773	2x21	—	—	42
X5D3	2x24	2x2	1	53
X2D4	2x35	2x24	1	119
X1A4	2x22	2x10	—	64
X1L4	2x216	2x21	—	474
X7B5	2x244	—	—	488
X2A4	2x29	—	—	58
X3A4	2x25	2x4	—	58

Chemicals	
D-19	37½
D-76	8
Hypo(c)	32
Hypo(d)	1
Acid	3+
water	5

date	from	to	description
4-8-55	Coltach	48-ind	36 gal D-19
4-9-55	48-ind	200-ind	29 gal D-19
4-12-55	"	"	29 gal D-19; 2 gal Hypo
4-18-55	ww-ind	48-ind	2x23=46 X204's; 2x24=48 X1L4's

On Hand at end of run:

458,884	—	4x9	—	36
486,773	2x21	—	—	42
X5D3	2x24	—	3	51
X2D4	2x12	2x25	3	77
X7B5	2x244	—	—	488
X1A4	2x22	2x10	—	64
X1L4	2x ¹⁹² 216	2x22	4	432
X2A4	2x29	—	—	58
X3A4	2x25	2x4	—	58

D-19	19
D-76	8
Hypo(c)	26
Hypo(d)	—
acid	3
water	5

Plate Testing Record

Run No. 68

APRIL, 1955

date	emulsion		good	break	broken in box	total	remarks
	type	number					
4-11-55	1032-O	X2D4	8	—	—	8	
	1032-E	X1L4	8	—	—	8	
4-12-55	"	"	3	—	1	4	
"	1032-O	X2D4	2	—	—	2	
4-14-55	"	"	4	—	—	4	
"	1032-E	X1L4	4	—	—	4	
4-15-55	"	"	6	—	—	6	
"	1032-O	X2D4	6	—	—	6	
4-16-55	"	"	6	—	—	6	
"	1032-E	X1L4	6	—	—	6	
4-17-55	"	"	6	—	—	6	
"	1032-O	X2D4	6	—	—	6	
4-20-55	"	"	6	—	—	6	
"	1032-E	X1L4	6	—	—	6	
4-24-55	"	"	6	—	—	6	
"	1032-O	X2D4	6	—	—	6	
4-26-55	1032-O	X5D3	4	—	—	4	

Observing schedule

Run No. 69

MAY, 1955

date	start	stop	no. of plates	no. of sur.pr.	observer	temp.	wind	sky	seeing
May 10/11	2009	Mr=2210	2	1	Abell	58°	NW	clear	1-3
11/12	2010	2250	7	2	"	59°	NW	"	2+
12/13	2011	2327	6	0	"	59°	SW	Scattered	2-3
13/14	2012	0001	4	2	Abell & Harrington	54°	NW	clear	2-4
14/15	2013	0033	0	0	"	49°	SW-NW	fog until midnight	<<1-4
15/16	2014	0104	8	4	"	35°	N.	clear	2-4
16/17	2015	0136	6	3	Harrington	38°	N.W.	clear	2-1-2+
17/18	2016	0210	0	0	"	46°	N.E.	"	<1 Soft
18/19	2017	0247	6	3	"	52°	W.-N.E.	"	3-1-
19/20	2018	D=0310	13	5	"	53°	N.	"	3
20/21	2019	0309	0	0	Abell	58°	SW	Scattered	2
21/22	2020	0308	18	4	"	58°	NW	clear	2-3
22/23	2021	0307	10	5	"	57°	SW	"	2-3
23/24	Ms-2111	0307	4	1	"	55°	SW	Scattered	2-3
24/25	2202	0306	0	0	"		SW	fog-drizzle	
			<hr/>						
			30						

Run No 69-a

(between runs - during Summer -
no regular scheduled observing run)

July, 1955

July 22/23
" 23/24

4	2	Kearns & Hill	clear	3
4	2	"	"	2-3
<hr/>				
4				

Observing Log

Run No. 69

May, 1955

(con't)

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
May 18/19	Survey	O-1427	O	X2D4		12	12 ^h 28 ^m	+60°	23-54
"	"	E-1427	E	X1L4	61	50	"	"	0-11
"	"	O-1428	O	X2D4		12	13 ^h 52 ^m	+66	23-45
"	"	E-1428	E	X1L4	"	50	"	"	0-3
"	"	O-1429	O	X2D4		12	15 ^h 12 ^m	+6°	23-41
"	"	E-1429	E	X1L4	"	50	"	"	23-54
May 19/20	"	O-1430	O	X2D4		12	14 ^h 48 ^m	0°	22-17
"	"	E-1430	E	X1L4	"	50	"	"	22-34
"	"	O-1431	O	X2D4		12	15 ^h 12 ^m	-4	23-4
"	"	E-1431	E	X1L4	"	50	"	"	23-20
"	"	O-1432	O	X2D4		12	15 ^h 36 ^m	-18	23-50
"	"	E-1432	E	X1L4	"	50	"	"	0-7
"	"	O-1433	O	X2D4		12	16 ^h 52 ^m	+78	23-53
"	"	E-1433	E	X1L4	"	50	"	"	0-16
"	"	O-1434	O	X2D4		12	19 ^h 08 ^m	+36	22-47
"	"	E-1434	E	X1L4	"	50	"	"	23-4
"	Zwicky	PS-801	E	X1L4	"	18	12 ^h 57 ^m 10 ^s	+28°18'15"	
"	"	PS-801"	O	X2D4	—	4	"	"	
"	"	PS-802	E	X1L4	"	18	"	"	
May 20/21	No Observations								
May 21/22	Survey	O-1435	O	X2D4		12	12 ^h 34 ^m	+24°	0-88
"	"	E-1435	E	X1L4	"	50	"	"	23-43
"	"	O-1436	O	X2D4		12	14 ^h 24 ^m	-18°	23-8
"	"	E-1436	E	X1L4	"	50	"	"	23-24
"	"	O-1437	O	X2D4		12	15 ^h 12 ^m	-12°	23-31
"	"	E-1437	E	X1L4	"	50	"	"	23-48
"	"	O-1438	O	X2D4		12	16 ^h 28 ^m	+24°	23-28
"	"	E-1438	E	X1L4	"	50	"	"	23-44
"	Focus	F-112	O	X5D3		7x1/2	17-18-6	+18-6-25	23-58
"	"	F-113	O	"		"	5-45-34	+85-10-27	11-45
"	"	F-114	O	"		"	17-56-2	+72-0-37	23-56
"	"	F-115	O	"		"	23-0-6	+15-57-47	19-5
"	"	F-116	O	"		"	22-19-42	+41-49-31	19-59
"	"	F-117	O	"		"	21-3-0	+23-23-59	21-28
"	"	F-118	O	"		"	13-42-51	+19-18-32	5-5
"	"	F-119	O	"		"	15-0-3	+40-35-12	4-1
"	"	F-120	O	"		"	16-42-4	+23-36-30	2-32

Observing Log

Run No. 69

MAY, 1955

(con't)

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
May 21/22	Focus	F-121	1032-0	X5D3	—	7X $\frac{1}{2}$ min	19-30-42	50-49	23-56
May 22/23	Survey	O-1439	1032-0	X2D4		12 ^m	14 ^h 0 ^m	-18°	22-49
"	"	E-1439	E	X1L4	#61	50	"	"	23-5
"	"	O-1440	O	X2D4		12	14 ^h 24 ^m	0°	23-35
"	"	E-1440	E	X1L4	"	50	"	"	23-52
"	"	O-1441	O	X2D4		12	14 ^h 44 ^m	+66°	1-27
"	"	E-1441	E	X1L4	"	50	"	"	0-32
"	"	O-1442	O	X2D4		12	14 ^h 44 ^m	+72°	2-43
"	"	E-1442	E	X1L4	"	50	"	"	1-47
"	"	O-1443	O	X2D4		12	16 ^h 52 ^m	+78°	1-58
"	"	E-1443	E	X1L4	"	50	"	"	1-1
May 23/24	"	O-1444	O	X2D4		10	14 ^h 0 ^m	-6°	23-39
"	"	E-1444	E	X1A4	"	50	"	"	22-43
"	Focus	F-122	O	X5D3		7X $\frac{1}{2}$	14 ^h 59 ^m 15 ^s	+0° 3' 21"	23-55
"	GC 23463 PS-803		O	X2D4		10	17 ^h 19 ^m 16 ^s	-35° 5' 52"	0-54
May 24/25	No Observations								

Run No. 69-a
(July 1955)

July 22/23	Survey	O-1445	1032-0	X7B5		10	18 ^h 30 ^m	+42°	23-3
"	"	E-1445	E	X1L4	#62	50	"	"	23-25
"	"	O-1446	O	X7B5		10	22 ^h 0 ^m	-18°	23-25
"	"	E-1446	E	X1L4	"	50	"	"	23-45
July 23/24	"	O-1447	O	X7B5		10	18 ^h 30 ^m	+42°	23-24
"	"	E-1447	E	X1L4	"	50	"	"	23-45
"	"	O-1448	O	X7B5		10	22 ^h 0 ^m	-18°	0-27
"	"	E-1448	E	X1L4	"	50	"	"	23-27

Supply Record

Run No. 69

MAY, 1955

On hand at beginning of run:

plates	200-inch vault	48-inch	open	ready box	total
458,884	-	4x9	-	-	36
486,773	2x21	-	-	-	42
X5D3	2x24	-	-	3	51
X2D4	2x12	2x25	-	3	77
X7B5	2x24	-	-	-	488
X1L4	2x192	2x22	-	4	432
X1A4	2x22	2x10	-	-	64
X2A4	2x29	-	-	-	58
X3A4	2x25	2x4	-	-	58

Chemicals	
D-19	19
D-76	8
Hypo(c)	26
acid	3
water	5

date	from	to	Description
May 12	200	48	2x12 X5D3 ; 2x12 X2D4
May 13	Coltech	48	32 gal D-19
"	48	200	8-D19; 4-Hypo
May 13	48	Coltech	Returned 6 gal bad Macconic Conc.

On hand at end of run:

458,884	-	4x9	-	-	36
486,773	2x21	-	-	-	42
X5D3	2x12	2x2	-	5	33
X2D4	-	2x8	-	4	24
X7B5	2x244	-	-	-	488
X1L4	2x195	2x3	-	4	396/100
X1A4	2x22	2x9	-	-	62
X2A4	2x29	-	-	-	58
X3A4	2x25	2x4	-	-	58

D-19	30
D-76	7
hypo(c)	13
acid	3
water	5

plate Testing Record

Run No. 69

MAY, 1955

date	emulsion:		good	break	broken in box	total	Remarks
	type	number					
5-11-55	1032-O	X2D4	6	-	-	6	
"	1032-E	X1L4	4	-	-	4	
5-12-55	1032-O	X5D3	4	-	-	4	
5-13-55	"	"	12	-	-	12	
5-15-55	"	X2D4	2	-	-	2	
"	1032-E	X1L4	2	-	-	2	
5-16-55	"	"	6	-	-	6	
"	1032-O	X2D4	4	-	-	4	
5-17-55	"	"	4	-	-	4	
"	1032-E	X1L4	4	-	-	4	
5-19-55	"	"	4	-	-	4	
"	1032-O	X2D4	4	-	-	4	
5-20-55	"	"	4	-	-	4	
"	1032-E	X1L4	5	-	1	6	
5-22-55	"	"	5	-	-	5	
"	1032-O	X2D4	5	-	-	5	
"	"	X5D3	4	-	-	4	
5-23-55	"	X2D4	5	-	-	5	
"	1032-E	X1L4	5	-	2	7	

Plates in 200-inch Dome for 48-inch Schmidt

Size	Type	Emulsion Number	No. boxes	No. in. ea. box	Notes
10x10	103a-D	X6G4	8	6	Deep freeze
"	1-N	496864	11	6	" "
"	103a-J	X5G4	11	6	" "
"	103a-E	X7G4	11	6	" "
"	103a-O	X4G4	19	6	" " (except 4 boxes)
"	103a-E	462,316	2	12	
"	103a-O	462,312	4	12	
"	103a-O	X4D5	25	6	
14x14	103a-O	X5D3	12	2	
"	III-E	X3A4	25	2	
"	103a-E	X1A4	22	2	
"	III-O	X2A4	29	2	
"	103a-D	X1D4	14	2	
"	103a-O	486,773	21	2	
"	103a-O	X7B5	244	2	161 boxes (= 322 plates) reserved for Survey
"	103a-E	X1L4	195	2	160 boxes (= 320 plates) reserved for Survey
"	103a-J	X3D5	41	2	
"	103a-D	X2D5	106	2	

Observing schedule
Run No. 70
(NON SURVEY RUN)
September, 1955

date	start	stop	no of plates	observ.	temp.	wind	sky	seeing	prog.
september:									
9/10	E=1926	Mr-2327	5	Abell	74°	W	clear	2	integrated photo ry. & glob. cl's
10/11	1924	0033	4	"	74	-	"	3	ibid. & NA Neb. thru
11/12	1923	0140	6	"	74	NW	"	21-3	glob. cl's polarization
12/13	1921	0248	5	"	74	NW	"	1-4	glob. cl's focus
13/14	1920	0353		"					
14/15	1918	D= 0406		"					

Observing Log
Run No. 70
(NON SURVEY)
September, 1955

date	program	plate	emulsion		filter	expos.	R.A.	Dec.	H.A.
			type	number					
Sept 13	Focus								
Sept 10	Focus	F-136	103a-0	?	-	7x1/2"	19 ^h 19 ^m 38 ^s	+02°42'5"	23-48
"	Glob. cl	PS-977	103a-0	X7B5		10	18 ^h 8 ^m 0 ^s	-7°04'	2-26
"	SA-61					10	17 ^h 0 ^m 58 ^s	+29°52'53"	1-36
"	Glob. cl	PS-978	103a-D	X2D5	Y-4	20	18 ^h 8 ^m 0 ^s	-7°04'	1-55
"	SA-61					20	17 ^h 0 ^m 58 ^s	+29°52'53"	3-51
"	Glob. cl	PS-979	103a-D	X2D5	Y-4	20	23 ^h 4 ^m 12 ^s	+12°28'	22-55
"	SA-89					20	21 ^h 10 ^m 46 ^s	+15°24'5"	0-11
"	Glob. cl	PS-980	103a-D	X7B5		10	23 ^h 4 ^m 12 ^s	+12°28'	23-23
"	SA-89					10	21 ^h 10 ^m 46 ^s	+15°24'5"	1-33
Sept 11	SA 89	PS-981	103a-0	X7B5	Polaroid (10° E of N)	10	"	"	22-52
"	BD+42-3911				" (10° E of N)	10	20 ^h 54 ^m 34 ^s	+43°15'3"	23-32
"	"				" (10° E of N)	10	"	"	23-43
"	SA 89				" (10° E of N)	10	21 ^h 10 ^m 46 ^s	+15°24'5"	23-50
"	Glob. cl	PS-982	103a-D	X2D5	Y-4	20	19 ^h 42 ^m 6 ^s	-8°09'	2-19
"	SA 89					20	21 ^h 10 ^m 46 ^s	+15°24'5"	0-22
"	Glob. cl	PS-983	103a-0	X7B5	-	10	19 ^h 42 ^m 6 ^s	-8°09'	2-46
"	SA 89					10	21 ^h 10 ^m 46 ^s	+15°24'5"	1-34
"	Glob. cl	PS-984	103a-0	X7B5	-	10	21 ^h 43 ^m 7 ^s	-21°28'	1-38
"	SA 89					10	21 ^h 10 ^m 46 ^s	+15°24'5"	1-52
Sept 12	Glob. cl	PS-985	103a-D	X2D5	Y-4	15	17 ^h 40 ^m 6 ^s	-26°12'	1-24
"	SA 61					15	17 ^h 0 ^m 58 ^s	+29°52'53"	2-44
"	Glob. cl	PS-986	103a-0	X7B5	-	6	17 ^h 40 ^m 6 ^s	-26°12'	2-37
"	SA 61					6	17 ^h 0 ^m 58 ^s	+29°52'53"	3-6
"	Glob. cl	PS-987	"	"	-	6	18 ^h 52 ^m 2 ^s	-22°46'	1-39
"	SA 61					6	17 ^h 0 ^m 58 ^s	+29°52'53"	3-42
"	Glob. cl	PS-988	103a-D	X2D5	Y-4	15	18 ^h 52 ^m 2 ^s	-22°46'	2-26
"	SA 61					15	17 ^h 0 ^m 58 ^s	+29°52'53"	3-57
"	Glob. cl	PS-989	103a-D	X2D5	"	10	21 ^h 43 ^m 7 ^s	-21°28'	0-1
"	SA 89					10	21 ^h 10 ^m 46 ^s	+15°24'5"	0-50
"	SA-71	PS-990	103a-0	X7B5	Polaroid (10° E of N)	20	3 ^h 14 ^m 40 ^s	+15°14'40"	20-10
"	Polaroid				" (10° E of N)	20	3 ^h 44 ^m 8 ^s	+23°58'	20-9
"	"				" (10° E of N)	20	"	"	20-28
"	SA-71				" (10° E of N)	20	3 ^h 14 ^m 40 ^s	+15°14'40"	21-29
Sept 13	Glob. cl	PS-991	103a-0	X7B5	-	8x20 ^s	18 ^h 38 ^m 5 ^s	-19°52'	0-50
"	SA 61					"	17 ^h 0 ^m 58 ^s	+29°52'53"	2-13

Observing log
Run No. 70
(cont)
(NON SURVEY)
September, 1955

date	program plate	emulsion		filter	expos.	R.A.	Dec.	H.A.
		type	number					
Sept 12/3	Glob. cl PS-992	1032-D	X205	Y-4	12 min	18 ^h 38 ^m .5	-19°52'	1-5
"	SA61				"	17 ^h 0 ^m 58 ^s	+29°52'53"	3-0
"	Glob cl PS-993	1032-D	"	"	"	19 ^h 16 ^m .0	+18°28'	1-21
"	SA61				"	17 ^h 0 ^m 58 ^s	+29°52'53"	3-19
"	Glob cl PS-994	1032-D	X7B5	-	7 min	19 ^h 16 ^m .0	+18°28'	1-43
"	SA61				"	17 ^h 0 ^m 58 ^s	+29°52'53"	4-10
"	Focus F-137	1032-D	X205	-	7x 1/2 min	21 ^h 34 ^m 59 ^s	-0°36'56"	23-53

Observing schedule

Run No. 71

OCTOBER, 1955

date	start	stop	no. of plates	no. of sur.pr.	observer	temp.	wind	sky	Seeing temp.
Oct 17/18	E= 1835	D -0429	4	0	Abell	62°	SE-Strong	Scattered	3-1
18/19	Ms=1857	0430	0	0	"	54°	S	broken	2-1
19/20	1943	0431	3	0	"	54°	SW	Scattered	2-3
20/21	2033	0432	8	3	"	54°	SW	Scattered	2-4
21/22	2126	0433	0	0	"	42°		Fog & wet	
22/23	2221	0433	10	4	"	54°	NE	Clear	1-3
23/24	2318	0434	8	4	"	58°	NE	"	1-2
24/25	0015	0435	6	3	"	60°	Calm	"	3-4

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Observing Log
Run No. 71
OCTOBER, 1955

date	program	plate	emulsion type number	filter	exposure	R.A.	Dec.	H.A.
Oct 17/8	Asteroid	PS-1073	1032-0 X7B5	-	10 ^m	18 ^h 18 ^m 0 ^s	-23°35'	2 ^h 18 ^m
"	Focus	F-146	E X124	#62	7x1 ^m	21 ^h 23 ^m 17 ^s	+0°19'2"	2 ^h 48 ^m
"	"	F-147	O ?	-	7x½ ^m	"	"	0-1
"	Cluster of galaxies	PS-1074	1-N 496,864	Wr.88-A	60 ^m	23 ^h 31 ^m 51 ^s	+5°11'38"	22-32
Oct 18/9	No Observations							
Oct 19/20	Polar Axis	T-46	1032-E X1A4	#62	-	Pole		23-50
"	Focus	F-148	" "	"	7x1 ^m	22 ^h 31 ^m 28 ^s	-1°49'56"	23-55
"	cluster of galaxies	PS-1075	1-N 496,864	Wr.88 A	90 ^m	23 ^h 31 ^m 51 ^s	+5°11'38"	23-26
Oct 20/21	Cygnus Loop	PS-1076	1032-0 X7B5	Polaroid Axis EW	30 ^m	20 ^h 39 ^m 11 ^s	+29°33'16"	2-22
"	"			NS	"	"	+31°33'16"	3-0
"	"		(Used ¾ Shield - put object in each quadrant)	NE-SW	"	20 ^h 48 ^m 25 ^s	"	3-29
"	"			NW-SE	"	"	+29°33'16"	4-7
"	IC 1613	PS-1077	1032-0 X7B5	-	10 ^m	1 ^h 2 ^m 31 ^s	+1°54'	0-33
"	Survey	O-1449	" "		10	2 ^h 48 ^m	-12°	1-15
"	"	E-1449	E X124	#62	50	"	"	0-20
"	"	O-1450	O X7B5	"	10	3 ^h 54 ^m	+30°	1-17
"	"	E-1450	E X124	"	50	"	"	0-23
"	"	O-1451	O X7B5	"	10	5 ^h 12 ^m	+30°	1-8
"	"	E-1451	E X124	"	50	"	"	0-14
Oct 21/22	No Observations							
Oct 22/23	Focus	F-149	E X124	"	7x1 ^m	0 ^h 50 ^m 27 ^s	-1°25'55"	23-48
"	"	F-150	O X7B5	"	7x½ ^m	"	"	0-2
"	Survey	O-1452	O "	"	10	2 ^h 48 ^m	-6°	22-13
"	"	E-1452	E X124	"	50	"	"	22-28
"	"	E-1453	E "	"	50	2 ^h 48 ^m	0°	23-26
"	"	O-1453	O X7B5	"	10	"	"	0-22
"	"	O-1454	O "	"	10	4 ^h 20 ^m	+30°	0-49
"	"	E-1454	E X124	"	50	"	"	23-52
"	"	O-1455	O X7B5	"	9	5 ^h 12 ^m	+30°	1-7
"	"	E-1455	E X124	"	50	"	"	0-12
Oct 23/24	"	O-1456	O X7B5	"	8	3 ^h 12 ^m	-6°	23-12
"	"	E-1456	E X124	"	50	"	"	23-24
"	"	O-1457	O X7B5	"	8	3 ^h 28 ^m	+30°	0-2
"	"	E-1457	E X124	"	50	"	"	0-16
"	"	O-1458	O X7B5	"	8	4 ^h 12 ^m	+36°	0-28
"	"	E-1458	E X124	"	50	"	"	0-39
"	"	O-1459	O X7B5	"	8	5 ^h 38 ^m	+30°	0-9
"	"	E-1459	E X124	"	"	"	"	"

Observing Log
Run No. 71
OCTOBER, 1955
(cont)

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Oct 24/25	Survey	1032 -1460	1032-0	X7B5		8 ^{min}	3 ^h 12 ^m	+18°	0-14
"	"	E-1460	E	X1L4	#62	50	"	"	23-19
"	"	O-1461	O	X7B5		8	4 ^h 46 ^m	+24°	23-49
"	"	E-1461	E	X1L4	"	50	"	"	22-54
"	"	O-1462	O	X7B5		8	5 ^h 12 ^m	-24°	0-34
"	"	E-1462	E	X1L4	"	50	"	"	23-40

Supply Record

Run No. 71

OCTOBER, 1955

On hand at end of run:

plate size	emulsion: type	number	200-inch deep vault	freeze	48-inch	open	ready box	total
10x10	103a-D	X6G4	48 6	42	6			54
"	1-N	496,864	48	42	6	2	1	51
"	103a-J	X5G4		48 66				66
"	103a-E	X7G4		48	6			54
"	103a-O	X4G4	36+ 48	48	6			90
"	103a-E	462,316	12		6			18
"	103a-O	462,312	48					48
"	103a-O	X4D5	144		6			150
14x14	103a-O	X5D3	2x11					22
"	III-E	X3A4	2x25		2x4			58
"	103a-E	X1A4	2x20		2x10			60
"	III-O	X2A4	2x29					58
"	103a-D	X1D4	2x14					28
"	103a-O	486,773	2x21					42
"	103a-O	X7B5	2x164		2x4			316
"	103a-E	X1L4	2x153		2x5		1	317
"	103a-J	X3D5	2x38					76
"	103a-D	X2D5	2x84		2x6			180

Chemicals:

D-19	12	9 9/21	1/2	21 1/2
D-76		4 8/21	1/2	4 1/2
Hypo	48	7 9/21		48
Acid		2	1/2	2 1/2
Water		5		5

(Inventory Taken Nov 7, 1955)

Observing schedule

Run No. 72

NOVEMBER, 1955

date	start	stop	no. of plates	number sur. pr.	observer	temp.	wind	sky	seeing
7/8	E =1816	Mr=0040	0	0	Abell	55°	SE	clear	<< 1
8/9	1815	0142	6	0	"	56°	NE	"	<1-1
9/10	1814	0242	4	1	"	60°	NW	scattered to overcast	1-2
10/11	1814	0341	14	7	"	57°	SW	clear	1-2
11/12	1813	0440	0	0	"	40°	SW	fog	
12/13	1812	D =0449	0	0	"	39°	SW	fog; light rain	
13/14	1812	0450	0	0	"		S	fog steep snow	
14/15	1811	0451	0	0	Minkowski		NW	clouds, fog	
15/16	1810	0452	8	4	"	37	NW	clear	
16/17	Ms=1827	0452	0	0	"				
17/18	1919	0453	14	5	Osterbrock	37	SE	CLEAR	1-2
18/19	2013	0454	15	5	"	50°	SE	CLEAR	1-3
19/20	2108	0454	12	5	"	56°	SE	"	1-3
20/21	2204	0455	0	0	"		SW	Storm	
21/22	2301	0456	0	0	Abell	30°		Fog till 12:00 then clear	<1
22/23	2359	0456	9	4	"	38°	SE	clear	1-2
23/24	0058	0457	7	3	"	38°	W-NW	"	2-3
24/25	0200	0458	0	0	"	44		Overcast	

37 + 1 so. Ext.

Observing Log
Run No. 72
NOVEMBER, 1955

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Nov 7/8	No Observations								
Nov 8/9	Cluster (Amm)	PS-1078	103a-0	X7B5	-	10 min	14 ^h 16 ^s	-15 [°] 46 ['] 38 ["]	2-43
"	(1580) Betulia	PS-1079	"	"	-	8	5 ^h 8 ^m .9	+34 [°] 29 [']	22-59
"	Pir. Cluster	PS-1080	"	"	-	10	3 ^h 21 ^m 50 ^s	+41 [°] 4 ['] 53 ["]	1-0
"	Focus	F-151	"	"	-	7x1 min	4 ^h 58 ^m 52 ^s	-0 [°] 46 ['] 7 ["]	23-41
"	(1580) Betulia	PS-1081	"	"	-	8	5 ^h 8 ^m .9	+34 [°] 29 [']	23-48
"	Focus	F-152	1032-E	X1L4	#62	7x1 min	5 ^h 18 ^m 58 ^s	-0 [°] 27 ['] 52 ["]	23-50
Nov 9/10	Survey	O-1463	O	X7B5		8	17 ^h 36 ^m	+12 [°]	4-39
"	"	E-1463	E	X1L4	"	50	"	"	3-43
"	1951 RA	PS-1082	O	X7B5		10	20 ^h 9 ^m .0	-14 [°] 58 [']	1-45
"	Peg. cluster	PS-1083	O	"		10	23 ^h 17 ^m 16 ^s	+7 [°] 42 ['] 31 ["]	23-51
Nov 10/11	Survey	O-1464	O	"		8	19 ^h 56 ^m	+30 [°]	2-27
"	"	E-1464	E	X1L4	"	50	"	"	1-32
"	"	O-1465	O	X7B5		8	0 ^h 0 ^m	+6 [°]	22-37
"	"	E-1465	E	X1L4	"	50	"	"	22-50
"	"	O-1466	O	X7B5		8	0 ^h 56 ^m	+36 [°]	23-25
"	"	E-1466	E	X1L4	"	50	"	"	23-38
"	"	O-1467	O	X7B5		8	2 ^h 48 ^m	-12 [°]	22-43
"	"	E-1467	E	X1L4	"	50	"	"	22-55
"	"	O-1468	O	X7B5		8	3 ^h 54 ^m	+30 [°]	23-52
"	"	E-1468	E	X1L4	"	50	"	"	0-5
"	"	O-1469	O	X7B5		8	4 ^h 40 ^m	+36 [°]	0-13
"	"	E-1469	E	X1L4	"	50	"	"	0-27
"	"	O-1470	O	X7B5		8	6 ^h 24 ^m	+18 [°]	23-43
"	"	E-1470	E	X1L4	"	50	"	"	23-55
Nov 11/12	No Observations								
Nov 12/13	"	"							
Nov 13/14	"	"							
Nov 14/15	"	"							
Nov 15/16	Survey	O1471	O	X7B5		8	3 ^h 12 ^m	+6 [°]	23 ^h 59
		E1471	E	X1L4	"	50	"	"	23 ^h 0
		O1472	O	X7B5		8	3 ^h 54 ^m	-24 [°]	0 ^h 38
		E1472	E	X1L4	"	50	"	"	23 ^h 36
		O1473	O	X7B5		8	5 ^h 12 ^m	-18 [°]	0 ^h 42
		E1473	E	X1L4	"	50	"	"	23 ^h 35
		O1474	O	X7B5		8	6 ^h 0 ^m	+18 [°]	1 ^h 22
		E1474	E	X1L4	"	50	"	"	0 ^h 16

Observing Log
Run No. 72
(cont)
NOVEMBER, 1955

date	program	plate	emulsion type	number	filter	exposure	R.A.	Dec.	H.A.
Nov 17/5	Comet	PS-1084	103a-O	X7B5	—	8 ^m	21 ^h 00 ^m 43 ^s	+57°35'33"	4 ^h 43 ^m
"	"	PS-1085	"	"	—	"	23 ^h 42 ^m 14 ^s	-3°25'18"	2 ^h 20 ^m
"	"	PS-1086	"	"	—	"	0 ^h 41 ^m 26 ^s	+1°12'48"	1 ^h 41 ^m
"	SURVEY	E-1475	103a-E	X1L4	#62	50^m	3^h40^m20^s	-17°41'45"	23^h17^m
"	"	O-1475	103a-O	X7B5	—	8^m	"	"	23
"	Survey	O-1475	103a-O	X7B5	#62	8 ^m	3 ^h 40 ^m 20 ^s	-17°41'45"	23 ^h 02 ^m
"	"	E-1475	103a-E	X1L4	#62	50 ^m	"	"	23 ^h 16 ^m
"	"	O-1476	103a-O	X7B5	—	8 ^m	4 ^h 28 ^m 14 ^s	-17°47'36"	23 ^h 26 ^m
"	"	E-1476	103a-E	X1L4	#62	50 ^m	"	"	23 ^h 41 ^m
"	Comet	PS-1087	103a-O	X7B5	—	8 ^m	4 ^h 00 ^m 32 ^s	-19°37'00"	1 ^h 08 ^m
"	Survey	E-1477	103a-E	X1L4	#62	50 ^m	5 ^h 40 ^m 39 ^s	-5°57'18"	23 ^h 43 ^m
"	"	O-1477	103a-O	X7B5	—	8 ^m	"	"	0 ^h 40 ^m
"	"	E-1478	103a-E	X1L4	#62	50 ^m	6 ^h 28 ^m 24 ^s	-12°04'00"	0 ^h 08 ^m
"	"	O-1478	103a-O	X7B5	—	8 ^m	"	"	1 ^h 03 ^m
"	"	O-1479	"	"	—	"	7 ^h 40 ^m 26 ^s	-12°13'28"	0 ^h 08 ^m
"	"	E-1479	103a-E	X1L4	#62	50 ^m	"	"	0 ^h 19 ^m
Nov 18/5	NGC 7293	PS-1088a	103a-E	X1L4	#62	5 ^m	22 ^h 32 ^m 15 ^s	-20°05'18"	0 ^h 40 ^m
	SA 89	b				5 ^m	21 ^h 07 ^m 08 ^s	+16°41'18"	2 ^h 22 ^m
	NGC 7293	c				15 ^m	22 ^h 21 ^m 49 ^s	-21°49'54"	1 ^h 20 ^m
	SA 89	d				15 ^m	21 ^h 15 ^m 47 ^s	+14°20'42"	2 ^h 47 ^m
"	NGC 7419	PS-1089	103a-D	X2D5	Y-4	20 ^m	22 ^h 51 ^m 16 ^s	+59°51'40"	1 ^h 47 ^m
"	COMET	PS-1090	103a-O	X7B5	—	8 ^m	21 ^h 00 ^m 43 ^s	+57°35'33"	4 ^h 34 ^m
"	"	PS-1091	"	"	—	8 ^m	23 ^h 42 ^m 14 ^s	-3°25'18"	2 ^h 10 ^m
"	SURVEY	O-1480	"	"	—	8 ^m	3 ^h 40 ^m 30 ^s	-11°41'53"	22 ^h 51 ^m
"	"	E-1480	103a-E	X1L4	#62	50 ^m	"	"	23 ^h 04 ^m
"	"	O-1481	103a-O	X7B5	—	8 ^m	4 ^h 53 ^m 31 ^s	+18°9'17"	22 ^h 55 ^m
"	"	E-1481	103a-E	X1L4	#62	50 ^m	"	"	23 ^h 10 ^m
"	"	O-1482	103a-O	X7B5	—	8 ^m	5 ^h 40 ^m 12 ^s	-17°57'13"	23 ^h 23 ^m
"	"	E-1482	103a-E	X1L4	#62	50 ^m	"	"	23 ^h 37 ^m
"	"	O-1483	103a-O	X7B5	—	8 ^m	6 ^h 28 ^m 52 ^s	-0°4'4"	23 ^h 49 ^m
"	"	E-1483	103a-E	X1L4	#62	50 ^m	"	"	0 ^h 5 ^m
"	"	O-1484	103a-O	X7B5	—	8 ^m	8 ^h 4 ^m 29 ^s	-12°16'24"	23 ^h 25 ^m
"	"	E-1484	103a-E	X1L4	#62	50 ^m	"	"	23 ^h 39 ^m
"	COMET	PS-1092	103a-O	X7B5	—	8 ^m	6 ^h 41 ^m 30 ^s	+44°33'10"	1 ^h 59 ^m
Nov 19/5	FOCUS	F-153	103a-E	X1A4	#63	1 ^m EACH	1 ^h 01 ^m 29 ^s	+1°07'33"	23 ^h 54 ^m
"	SURVEY	SO-20	103a-O	X7B5	—	7 ^m	1 ^h 47 ^m 25 ^s	-29°37'38"	23 ^h 28 ^m
"	"	SE-20	103a-E	X1L4	#63	45 ^m	"	"	23 ^h 49 ^m

observing schedule

Run No. 73

DECEMBER, 1955

date	start	stop	no. of plates	no. sur. pair	observer	temp.	wind	sky	seeing
6/7	E = 1808	Mr = 0036	0	0	Abell	46°	SW	Overcast - fog, drizzle	
7/8	1808	0135	9	0	"	44°	SE	clear	<1-1
8/9	1808	0234	10	3	"	48	NW	clear to 9:00 then thin scattered	2-4
9/10	1809	0331	0	0	"	45	NE	Scattered	<<1
10/11	1809	0428	12	4	"	50	NE	Clear	<1-1
11/12	1809	D = 0511	20	7	"	53°	NE-SE	"	<1-3
12/13	1809	0512	18	7	"	54°	NW	clear to scattered	2-4
13/14	1809	0513	2	0	"	54°	SE	Scattered	4
14/15	1810	0513	16	8 7	"	53°	SE	clear	4
15/16	1810	0514	16	7	"	49°	NW	Clear	1-3
16/17	Ms = 1902	0515	10	3	"	48°	NW	Broken	1-2
17/18	1958	0515	10	4	"				
18/19	2054	0516			"				

42 + 11 Southern Extension

= 53 pairs total.

8 Survey nights out of 12 nights.

Observing Log
Run No 73
DECEMBER, 1955

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.	half of plate
			type	number						
Dec 6/7	No Observations									
Dec 7/8	glob. elstir + 5A 71	PS-1096	1032-D	X2D5	Y-4	2x15 min	3 ^h 25 ^m .7	+79°28'	cl. 22-435	SA71:23-16N
"	"	PS-1097	"	"	"	"	4 ^h 43 ^m .1	+31°23'	cl. 22-295	SA71:23-39N
"	"	PS-1098	1032-O	X7B5	"	2x8 min	"	"	cl. 22-525	SA71:0-37N
"	"	PS-1099	"	"	"	"	3 ^h 25 ^m .7	+79°28'	cl. 1-545	SA71:0-51N
"	Comet	PS-1100	"	"	"	8 min	5 ^h 24 ^m 28 ^s	+83°49'50"		23-25
"	"	PS-1101	"	"	"	"	6 ^h 4 ^m 25 ^s	+41°51'40"		23-10
"	Focus	F-154	"	"	"	7x½ min	5 ^h 52 ^m 9 ^s	+0°57'37"		23-38
"	"	F-155	1032-E	X1L4	#63	7x1 min	"	"		23-58
"	Comet	PS-1102	O	X7B5	"	8 min	9 ^h 53 ^m 31 ^s	-8°37'21"		20-2
Dec 8/9	Survey	O-1496	O	"	"	8	21 ^h 32 ^m	+54°		2-36
"	"	E-1496	E	X1L4	"	45	"	"		1-45
"	So. Ext.	SO-21	O	X7B5	"	7	0 ^h 52 ^m	-30°		0-12
"	"	SE-21	E	X1L4	"	40	"	"		23-29
"	"	SO-22	O	X7B5	"	7	1 ^h 44 ^m	-30°		0-14
"	"	SE-22	E	X1L4	"	40	"	"		23-31
"	Survey	O-1497	O	X7B5	"	8	3 ^h 36 ^m	+6°		22-33
"	"	E-1497	E	X1L4	"	45	"	"		22-46
"	"	O-1498	O	X7B5	"	8	4 ^h 0 ^m	-18°		23-14
"	"	E-1498	E	X1L4	"	45	"	"		23-26
Dec 9/10	No Observations									
Dec 10/11	So. Ext.	SO-23	O	X7B5	"	7	1 ^h 18 ^m	-30°		23-29
"	"	SE-23	E	X1L4	"	40	"	"		23-39
"	"	SO-24	O	X7B5	"	7	2 ^h 10 ^m	-30°		23-30
"	"	SE-24	E	X1L4	"	40	"	"		23-41
"	Survey	O-1499	O	X7B5	"	8	3 ^h 36 ^m	+6°		22-52
"	"	E-1499	E	X1L4	"	45	"	"		23-9
"	"	O-1500	O	X7B5	"	8	4 ^h 0 ^m	-18°		23-36
"	"	E-1500	E	X1L4	"	45	"	"		23-48
"	"	O-1501	O	X7B5	"	8	4 ^h 24 ^m	+18°		1-4
"	"	E-1501	E	X1L4	"	45	"	"		0-14
"	"	O-1502	O	X7B5	"	8	6 ^h 0 ^m	+12°		0-31
"	"	E-1502	E	X1L4	"	45	"	"		23-41
Dec 11/12	Comet-132khany. et al	PS-1103	O	X7B5	"	8	21 ^h 51 ^m 27 ^s	+55°54'54"		2-30
"	So. Ext	SO-25	O	"	"	7	2 ^h 10 ^m	-30°		23-2
"	"	SE-25	E	X1L4	"	40	"	"		23-13

Observing Log
Run No 73
DECEMBER, 1955
(cont)

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Dec 14/15	So. Ext.	1032-28	1032	-0 X7B5		7 min	2 ^h 36 ^m	-30°	23-16
"	"	SE-28	E	X1L4	#63	40	"	"	23-27
"	Survey	0-1517	O	X7B5		8	4 ^h 0 ^m	-18°	22 ^h 46 ^m
"	"	E-1517	E	X1L4	"	45	"	"	22 ^h 59 ^m
"	"	0-1518	O	X7B5		8	4 ^h 0 ^m	-6°	0-40
"	"	E-1518	E	X1L4	"	45	"	"	23-50
"	"	0-1519	O	X7B5		8	4 ^h 48 ^m	-6°	0-56
"	"	E-1519	E	X1L4	"	45	"	"	0-6
"	"	0-1520	O	X7B5		8	5 ^h 12 ^m	-12°	1-33
"	"	E-1520	E	X1L4	"	45	"	"	0-44
"	"	0-1521	O	X7B5		8	7 ^h 36 ^m	-12°	1-2
"	"	E-1521	E	X1L4	"	45	"	"	0-11
"	"	0-1522	O	X7B5		8	9 ^h 6 ^m	-24°	0-34
"	"	E-1522	E	X1L4	"	45	"	"	23-45
"	"	0-1523	O	X7B5		8	10 ^h 24 ^m	-24°	0-16
"	"	E-1523	E	X1L4	"	45	"	"	23-28
Dec 15/16	So. Ext.	SO-29	O	X7B5		7	3 ^h 2 ^m	-30°	23-2
"	"	SE-29	E	X1L4	"	40	"	"	23-13
"	Survey	0-1524	O	X7B5		8	4 ^h 24 ^m	0°	22-33
"	"	E-1524	E	X1L4	"	45	"	"	22-46
"	"	0-1525	O	X7B5		8	4 ^h 48 ^m	+12°	23-11
"	"	E-1525	E	X1L4	"	45	"	"	23-23
"	"	0-1526	O	X7B5		8	5 ^h 12 ^m	-6°	23-50
"	"	E-1526	E	X1L4	"	45	"	"	0-2
"	"	0-1527	O	X7B5		8	7 ^h 36 ^m	+6°	22-31
"	"	E-1527	E	X1L4	"	45	"	"	22-43
"	"	0-1528	O	X7B5		8	8 ^h 48 ^m	-12°	23-1
"	"	E-1528	E	X1L4	"	45	"	"	23-14
"	"	0-1529	O	X7B5		8	9 ^h 6 ^m	-24°	0-37
"	"	E-1529	E	X1L4	"	45	"	"	23-48
"	"	0-1530	O	X7B5		8	10 ^h 0 ^m	-6°	0-42
"	"	E-1530	E	X1L4	"	45	"	"	23-54
Dec 16/17	NAC 7419	PS-1108	D	X2D5	Y-1	15	22 ^h 51 ^m 16 ^s	+59°51'40"	1-53
"	So. Ext.	SO-30	O	X7B5		7	3 ^h 28 ^m	-30°	23-4
"	"	SE-30	E	X1L4	#63	40	"	"	23-15
"	Survey	0-1531	O	X7B5		8	4 ^h 48 ^m	+12°	22-38
"	"	0-1531	O	"		8	"	"	23-40
"	"	E-1531	E	X1L4	"	45	"	"	22-52

Observing Log
Run No 73
(Cont)
DECEMBER, 1955

Date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Dec 16/17	Survey	0-1532	1032-0	X7B5		8 min	4 ^h 48 ^m	+12°	0-10
"	"	E-1532	E	X1L4	#63	45	"	"	0-11
"	"	0-1533	O	X7B5		8	9 ^h 12 ^m	-18°	23-13
"	"	E-1533	E	X1L4	"	45	"	"	23-24
Dec 17/18	So. Ext.	50-31	O	X7B5		7	3 ^h 54 ^m	-30°	23-32
"	"	SE-31	E	X1L4	"	40	"	"	23-42
"	Survey	0-1534	O	X7B5		8	4 ^h 48 ^m	+12°	23-36
"	"	E-1534	E	X1L4	"	45	"	"	23-49
"	"	0-1535	O	X7B5		8	9 ^h 12 ^m	-18°	22-41
"	"	E-1535	E	X1L4	"	45	"	"	22-53
"	"	0-1536	O	X7B5		8	9 ^h 36 ^m	-12°	23-18
"	"	E-1536	E	X1L4	"	45	"	"	23-30
"	"	0-1537	O	X7B5		8	10 ^h 24 ^m	-12°	23-31
"	"	E-1537	E	X1L4	"	45	"	"	23-42

Observing Log
Run No 74
(cont)

FEBRUARY, 1956

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Feb 10/1	So. Ext	SO-40	1032-0	X7B5		7 min	7 ^h 48 ^m	-30°	23-56
"	"	SE-40	E	X1L4	#62	40	"	"	23-12
"	"	SO-41	O	X7B5		7	8 ^h 40 ^m	-30°	23-59
"	"	SE-41	E	X1L4	"	40	"	"	23-15
"	"	SO-42	O	X7B5		7	9 ^h 32 ^m	-30°	0-2
"	"	SE-42	E	X1L4	"	40	"	"	23-18
"	Survey	O-1545	O	X7B5		8	11 ^h 36 ^m	-12°	22-54
"	"	E-1545	E	X1L4	"	45	"	"	23-6
"	"	O-1546	O	X7B5		8	12 ^h 24 ^m	+18°	23-9
"	"	E-1546	E	X1L4	"	45	"	"	23-22
"	"	O-1547	O	X7B5		8	13 ^h 12 ^m	+6°	23-25
"	"	E-1547	E	X1L4	"	45	"	"	23-38
"	"	O-1548	O	X7B5		8	14 ^h 48 ^m	0°	22-52
"	"	E-1548	E	X1L4	"	45	"	"	23-5
Feb 11/2	Survey	O-1549	O	X7B5		8	2 ^h 48 ^m	+18°	2-8
"	"	E-1549	E	X1L4	"	45	"	"	1-18
"	So. Ext.	SO-43	O	X7B5		7	5 ^h 38 ^m	-30°	23-37
"	"	SE-43	E	X1L4	"	40	"	"	23-48
"	"	SO-44	O	X7B5		7	6 ^h 56 ^m	-30°	23-14
"	"	SE-44	E	X1L4	"	40	"	"	23-24
"	Radiofld	PS-1130	D	X2D5		15	9 ^h 12 ^m	-12°	22-55
"	So. Ext	SO-45	O	X7B5		7	9 ^h 32 ^m	-30°	22-57
"	"	SE-45	E	X1L4	"	40	"	"	23-7
"	"	SO-46	O	X7B5		7	9 ^h 58 ^m	-30°	23-25
"	"	SE-46	E	X1L4	"	40	"	"	23-35
"	Survey	O-1550	O	X7B5		8	12 ^h 24 ^m	+12°	22-23
"	"	E-1550	E	X1L4	"	45	"	"	22-35
"	"	O-1551	O	X7B5		8	12 ^h 48 ^m	-18°	23-1
"	"	E-1551	E	X1L4	"	45	"	"	23-12
"	"	O-1552	O	X7B5		8	13 ^h 12 ^m	0°	23-41
"	"	E-1552	E	X1L4	"	45	"	"	23-53
"	"	O-1553	O	X7B5		8	14 ^h 0 ^m	-6°	23-57
"	"	E-1553	E	X1L4	"	45	"	"	0-8
Feb 12/2	"	O-1554	O	X7B5		8	2 ^h 32 ^m	+54°	2-28
"	"	E-1554	E	X1L4	"	45	"	"	1-38
"	So. Ext	SO-47	O	X7B5		7	5 ^h 38 ^m	-30°	23-40
"	"	SE-47	E	X1L4	"	40	"	"	23-50

Observing Log

Run No 74

(con't)

FEBRUARY, 1956

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
Feb 12/5	So. Ext	50-48	1032-0	X7B5		7	6 ^h 56 ^m	-30°	23-16
"	"	SE-48	E	X1L4	#63	40	"	"	23-26
"	"	50-49	O	X7B5		7	9 ^h 32 ^m	-30°	22-53
"	"	SE-49	E	X1L4	"	40	"	"	23-4
"	"	50-50	O	X7B5		7	10 ^h 24 ^m	-30°	22-56
"	"	SE-50	E	X1L4	"	40	"	"	23-7
"	Survey	O-1555	O	X7B5		8	12 ^h 24 ^m	+12°	23-38
"	"	E-1555	E	X1L4	"	45	"	"	22-48
"	"	O-1556	O	X7B5		8	12 ^h 48 ^m	-12°	0-16
"	"	E-1556	E	X1L4	"	45	"	"	23-27
"	"	O-1557	O	X7B5		8	14 ^h 0 ^m	-6°	0-6
"	"	E-1557	E	X1L4	"	45	"	"	23-17
Feb 13/5	No Observations								
Feb 14/5	"	"							
Feb 15/6	"	"							
Feb 16/7	Nova Puppis	PS 1131	D	X2D4	Y-4	10	8 ^h 41 ^m 30 ^s	-36°49'30"	1-7

observing schedule

Run No. 75

MARCH, 1956

date	start	stop	no. of plates	no. sur pair	observer	temp.	wind	sky	seeing
9/10	E =1913	D =0443	16	4+35XT	Abell	50°	NW	Clear	2-3
10/11	1913	0441	14	3+45XT	"	50°	NW	clear till 300 than clouds	<1-3
11/12	1914	0440	0	0	"	32°(outside)	W	light fog	<<1
12/13	1915	0439	18	5+35XT	"	40°	W	Clear	1-3
13/14	Ms=1925	0438	16	1+45XT	"	39°	SW	Clear	2-<1
14/15	2028	0436	15	5	"	42°	SW to SE	Scattered to clear	3-1
15/16	2131	0435	12	5	"	46°	SE	Clear until 3:00 then scattered	2-3+
16/17	2236	0433	0	0	"	50°	SE	Overcast	
17/18	2339	0432	10	5	"	55°	SE	clear to thin overcast	3-4
18/19	0038	0430	10	4	"	49°	NW	Clear	1-2

32 +
14 5XT

Observing Log
Run No. 75

MARCH, 1956

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H. A.
			type	number					
Mar 9/10	So. Ext	50-51 50-51	1032-0	X7B5		7 ^{min}	6 ^h 4 ^m	-30°	1-1
"	"	SE-51	E	X1L4	#63	40	"	"	0-17
"	Focus	F158	E	"	"	7x1 ^{min}	7 ^h 40 ^m 31 ^s	+0°18'32"	23-40
"	"	F159	O	X7B5	"	7x1/2 ^{min}	"	"	23-56
"	So. Ext	50-52	O	"	"	8	8 ^h 14 ^m	-30°	0-15
"	"	SE-52	E	X1L4	"	40	"	"	23-30
"	"	50-53	O	X7B5	"	7	9 ^h 6 ^m	-30°	0-20
"	"	SE-53	E	X1L4	"	40	"	"	23-36
"	Survey	O-1558	O	X7B5	"	8	11 ^h 12 ^m	-18°	22-25
"	"	E-1558	E	X1L4	"	45	"	"	22-37
"	"	O-1559	O	X7B5	"	8	11 ^h 36 ^m	-12°	23-3
"	"	E-1559	E	X1L4	"	45	"	"	23-15
"	"	O-1560	O	X7B5	"	8	12 ^h 24 ^m	+6°	23-42
"	"	E-1560	E	X1L4	"	45	"	"	23-54
"	"	O-1561	O	X7B5	"	8	13 ^h 12 ^m	+6°	23-57
"	"	E-1561	E	X1L4	"	45	"	"	0-9
Mar 10/11	So. Ext	50-54	O	X7B5	"	7	6 ^h 30 ^m	-30°	0-38
"	"	SE-54	E	X1L4	"	35	"	"	23-59
"	"	50-55	O	X7B5	"	7	7 ^h 22 ^m	-30°	0-36
"	"	SE-55	E	X1L4	"	35	"	"	23-57
"	"	50-56	O	X7B5	"	7	8 ^h 40 ^m	-30°	0-13
"	"	SE-56	E	X1L4	"	40	"	"	23-29
"	"	50-57	O	X7B5	"	7	9 ^h 32 ^m	-30°	0-16
"	"	SE-57	E	X1L4	"	40	"	"	23-32
"	Survey	O-1562	O	X7B5	"	8	11 ^h 36 ^m	-12°	22-24
"	"	E-1562	E	X1L4	"	47	"	"	22-36
"	"	O-1563	O	X7B5	"	8	12 ^h 24 ^m	+12°	23-45
"	"	E-1563	E	X1L4	"	45	"	"	23-58
"	"	O-1564	O	X7B5	"	8	14 ^h 0 ^m	-6°	23-11
"	"	E-1564	E	X1L4	"	45	"	"	23-23

Mar 12 No Observations

Mar 13	Venus	PS-1132	E	X1L4	#58	10x1 ^{min}	2 ^h 16 ^m 4 ^s	+15°10'	4-43
"	Comet Haro-Chavira	PS-1133	J	X1L4 X205	"	7 ^m	0 ^h 32 ^m 9 ^s	+77°15'32"	7-0
"	So. Ext	50-58	O	X7B5	"	7	7 ^h 48 ^m	-30°	0-30
"	"	SE-58	E	X1L4	#63	30	"	"	23-54
"	"	50-59	O	X7B5	"	7	9 ^h 58 ^m	-30°	22-57
"	"	SE-59	E	X1L4	"	35	"	"	23-0

Observing Log
Run No. 75

(cont)

MARCH, 1956

emulsion									
date	prog.	plate	type	number	filter	exp.	R.A.	Dec.	H.A.
Mar 12/56	So. Ext.	50-60	1032-0	X7B5		7 min	10 ^h 50 ^m	-30°	22-57
"	"	SE-60	E	X1L4	#63	35	"	"	23-8
"	Survey	0-1565	O	X7B5		8	12 ^h 24 ^m	+18°	22-15
"	"	E-1565	E	X1L4	#63	45	"	"	22-28
"	"	0-1566	O	X7B5		8	12 ^h 48 ^m	+18°	23-23
"	"	E-1566	E	X1L4	"	45	"	"	23-39
"	"	0-1567	O	X7B5		8	14 ^h 0 ^m	-6°	23-17
"	"	E-1567	E	X1L4	"	45	"	"	23-29
"	"	0-1568	O	X7B5		8	14 ^h 48 ^m	0°	23-32
"	"	E-1568	E	X1L4	"	45	"	"	23-44
"	"	0-1569	O	X7B5		8	15 ^h 36 ^m	-18°	23-45
"	"	E-1569	E	X1L4	"	45	"	"	23-56
Mar 13/56	Comet Olbers	PS-1134	J	X2D5		7	3 ^h 18 ^m 8 ^s	+12°11'18"	3-33
"	So. Ext.	50-61	O	X7B5		7	6 ^h 56 ^m	-30°	0-42
"	"	SE-61	E	X1L4	"	30	"	"	0-8
"	"	50-62	O	X7B5		7	7 ^h 48 ^m	-30°	0-36
"	"	SE-62	E	X1L4	"	30	"	"	0-1
"	Comet Bode	PS-1135	J	X2D5		7	4 ^h 41 ^m 46 ^s	+21°34'37"	3-58
"	So. Ext.	50-63	O	X7B5		7	9 ^h 58 ^m	-30°	22-54
"	"	SE-63	E	X1L4	"	35	"	"	23-22
"	"	50-64	O	X7B5		7	10 ^h 24 ^m	-30°	23-15
"	"	SE-64	E	X1L4	"	35	"	"	23-26
"	Survey	0-1570	O	X7B5		8	12 ^h 24 ^m	+18°	22-6
"	"	E-1570	E	X1L4	"	45	"	"	22-19
"	Glob. C1	PS-1136	D	X2D5	Y-4	12	11 ^h 26 ^m .6	+29°15'	1-59
"	SA 54					12	10 ^h 27 ^m 43 ^s	+29°44'39"	3-17
"	Glob. C1	PS-1137	O	X7B5	-	7	11 ^h 26 ^m .6	+29°15'	2-48
"	SA 54					7	10 ^h 27 ^m 14 ^s	+29°44'39"	3-36
"	Glob. C1	PS-1138	O	X7B5	-	7	15 ^h 13 ^m .5	+0°5'	23-16
"	SA 107					7	15 ^h 36 ^m 44 ^s	-0°9'55"	23-4
"	Glob. C1	PS-1139	D	X2D5	Y-4	12	15 ^h 13 ^m .5	+0°5'	23-56
"	SA 107					12	15 ^h 36 ^m 44 ^s	-0°9'55"	23-17
Mar 14/56	Focus	F-160	E	X1L4	#64	7x1	7 ^h 26 ^m 45 ^s	-1°48'0"	23-51
"	"	F-161	O	X7B5		7x1/2	"	"	0-5
"	Comet 1955B	PS-1140	J	X3D5	-	7	11 ^h 23 ^m 0 ^s	+35°28'25"	21-25

observing Log

Run No. 75
(cont.)
MARCH, 1956

date	prog.	plate	emulsion		filter	exp.	R.A.	Dec.	H.A.
			type	number					
Mar 14/56	Glob. C/	PS-1141	1032-1D	X2D5	Y-4	12	10 ^h 3 ^m 0 ^s	+0° 18'	23-32
"	SA54					12	10 ^h 27 ^m 17 ^s	+28° 44'	22-50
"	Glob. C/	PS-1142	1032-0	X7B5	—	7	10 ^h 3 ^m 0 ^s	+0° 18'	23-51
"	SA54					7	10 ^h 27 ^m 17 ^s	+28° 44'	23-39
"	Survey	O-1571	O	X7B5		8	12 ^h 24 ^m	+18°	22-11
"	"	E-1571	E	X1A4	#64	45	"	"	22-23
"	"	O-1572	O	X7B5		8	12 ^h 48 ^m	+18°	23-31
"	"	E-1572	E	X1A4	"	45	"	"	23-45
"	"	O-1573	O	X7B5		8	14 ^h 24 ^m	-18°	22-58
"	"	E-1573	E	X1A4	"	45	"	"	23-11
"	"	O-1574	O	X7B5		8	15 ^h 32 ^m	+18°	22-49
"	"	E-1574	E	X1A4	"	45	"	"	23-1
"	"	O-1575	O	X7B5		8	14 ^h 44 ^m	+66°	0-48
"	"	E-1575	E	X1A4	"	45	"	"	1-2
Mar 15/56	♂ ♀ C	PS-1143	III-0	X2A4	Y-4	15 ^h 6 ^m 6 ^s	~2 ^h 22 ^m	~+17°	5 ^h 25 ^m
"	"	PS-1144	"	"	"	"	"	"	5 ^h 45 ^m
"	Survey	O-1576	1032-0	X7B5		8	12 ^h 24 ^m	+18°	22-9
"	"	E-1576	E	X1A4	#64	45	"	"	22-22
"	"	O-1577	O	X7B5		8	12 ^h 48 ^m	-18°	23-28
"	"	E-1577	E	X1A4	"	45	"	"	23-40
"	"	O-1578	O	X7B5		8	12 ^h 48 ^m	0°	1-22
"	"	E-1578	E	X1A4	"	45	"	"	0-32
"	"	O-1579	O	X7B5		8	14 ^h 24 ^m	-18°	0-48
"	"	E-1579	E	X1A4	"	45	"	"	23-59
"	"	O-1580	O	X7B5		8	17 ^h 36 ^m	+12°	21-51
"	"	E-1580	E	X1A4	"	45	"	"	22-3
Mar 17/56	"	O-1581	O	X7B5		8	13 ^h 0 ^m	+24°	22-23
"	"	E-1581	E	X1A4	"	45	"	"	22-35
"	"	O-1582	O	X7B5		8	12 ^h 48 ^m	-18°	23-36
"	"	E-1582	E	X1A4	"	45	"	"	23-49
"	"	O-1583	O	X7B5		8	13 ^h 12 ^m	0°	1-7
"	"	E-1583	E	X1A4	"	45	"	"	0-17
"	"	O-1584	O	X7B5		8	14 ^h 24 ^m	-18°	0-55
"	"	E-1584	E	X1A4	"	45	"	"	0-5
"	"	O-1585	O	X7B5		8	13 ^h 36 ^m	+48°	2-47
"	"	E-1585	E	X1A4	"	45	"	"	1-58

Observing Log
Run No 75
(cont)
MARCH 1956

Date	Program	Plate No.	emulsion		filter	exposure	R.A.	Dec.	H.A.
Mar 18/56	Moon	P5-1145	III-O	X2A4	Y-4	1 ^s to 5 ^s	~5 ^h 20 ^m	~+22°	2 ^h 0 ^m
"	"	P5-1146	"	"	"	"	"	"	2 ^h 20 ^m
"	Survey	0-1586	103a-O	X7B5	"	8	12 ^h 48 ^m	-18°	0-25
"	"	E-1586	E	X1A4	#64	45	"	"	23-35
"	"	0-1587	O	X7B5	"	8	13 ^h 36 ^m	-12°	0-38
"	"	E-1587	E	X1A4	"	45	13 ^h 36 ^m	-12°	23-49
"	"	0-1588	O	X7B5	"	8	14 ^h 24 ^m	-18°	0-52
"	"	E-1588	E	X1A4	"	45	"	"	0-3
"	"	0-1589	O	X7B5	"	8	13 ^h 36 ^m	+48°	2-46
"	"	E-1589	E	X1A4	"	45	"	"	1-56

Observing schedule

Run No. 76

APRIL, 1956

date	start	stop	no of plates	no sur pair	observer	temp	wind	sky	seeing
7/8	E=1937	Mr=0346	14	5	Abell	51°	NW	clear	2-3
8/9	1938	D =0400	13	4	"	56°	NW	" (?)	2-3
9/10	1939	0358	0	0	"	-	SE	Overcast	
10/11	1940	0357	0	0	"	-	S	"	
11/12	1941	0355	0	0	"	-	SW	fog-drizzle	
12/13	1942	0354	0	0	"	-	SW	Storm - snow	
13/14	2130	0353	0	0	"	-	SW	Snow-fog	
14/15	2232	0351	0	0	"	-	NW	fog	
15/16	2328	0350	0	0	"	-	NW	fog	

Run No 76
APRIL, 1956

Apr	%	NO	Observations
Apr	10%	"	"
Apr	1 1/2	"	"
Apr	1 1/2	"	"
Apr	1 3/4	"	"
Apr	1 3/4	"	"
"	14/15	"	"
"	15/16	"	"

Observing schedule
Run No 77
MAY, 1956

date	start	stop	no. of plates	no. sur. pair	observer	temp	wind	sky	seeing
ay 7/8E	-2008	D = 0320	15	7	Abell	48°	SE	0 clear till 2:45 - clouds	2-3
8/9	2009	0319	1	0	"	40°	SW	Storm	1
9/10	2010	0318	0	0	"	36°	SW	"	-
10/11	2011	0317	8	3	"	44°	NW	fog till 10:30 then clear	2-3
11/12Ms	=2019	0316			"				
12/13	2120	0315			"				
13/14	2214	0314			"				

observing Log
Run No. 78
MAY ~~APRIL~~, 1956
(~~90014~~)

date	program	plate	emulsion		filter	exposure	R.A.	Dec.	H.A.
			type	number					
May 7/8	Focus	F-162 F-162	1032-0	X7B5	-	7x1/2"	11 ^h 11 ^m 15 ^s	+0°12'9"	23-48"
"	Survey	O-1599	" 0	"		8	12 ^h 8 ^m	+36°	23-53
"	"	E-1599	E	X1A4	#64	45	"	"	23-3
"	"	O-1600	O	X7B5		8	12 ^h 48 ^m	-6°	0-17
"	"	E-1600	E	X1A4	"	45	"	"	23-27
"	"	O-1601	O	X7B5		7	13 ^h 36 ^m	-12°	0-28
"	"	E-1601	E	X1A4	"	41	"	"	23-40
"	"	O-1602	O	X7B5		7	15 ^h 36 ^m	-18°	12-42
"	"	E-1602	E	X1A4	"	40	"	"	22-54
"	"	O-1603	O	X7B5		7	16 ^h 54 ^m	-24°	22-22
"	"	E-1603	E	X1A4	"	40	"	"	22-34
"	"	O-1604	O	X7B5		7	17 ^h 0 ^m	+72°	23-26
"	"	E-1604	E	X1A4	"	40	"	"	23-40
"	"	O-1605	O	X7B5		7	20 ^h 22 ^m	+24°	20-59
"	"	E-1605	E	X1A4	"	40	"	"	21-11
May 8/9	Focus	F-168	E	X1L4	"	7x1"	11 ^h 24 ^m 31 ^s	-18°55'29"	23-45
May 9/10	No Observations								
May 10/4	Survey	O-1606	O	X7B5		8	13 ^h 36 ^m	-12°	1-26
"	"	E-1606	E	X1A4	"	45	"	"	0-35
"	"	O-1607	O	X7B5		8	16 ^h 54 ^m	-24°	0-10
"	"	E-1607	E	X1A4	"	45	"	"	23-20
"	trail plate	ps-1220	O	X7B5		1 ^m trail; 1 ^m track slew N-S	12 ^h 20 ^m	+26°0'	5-4
"	Comet Haro-Chavero	ps-1221	J	X3D5		7 ^m in	3 ^h 8 ^m 8 ^s	+84°40'40"	14-25
"	Survey	O-1608	O	X7B5		8	20 ^h 22 ^m	+24°	21-23
"	"	E-1608	E	X1A4	"	45	"	"	21-36

Run No 78

~~MAY~~ APRIL, 1956

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[illegible]